TouchTunes

INTERACTIVE NETWORKS

Allegro MX-1v

Installation and Setup Guide

Disclaimer

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1 Introduction

Welcome to the Installation and Setup Guide for the TouchTunes Allegro MX-1 jukebox! This chapter provides you information about audience pre-requisites, related documentation, and how to get customer support.

About this guide

Congratulations on choosing a TouchTunes Allegro MX-1 jukebox! This guide explains how to prepare for, install and activate your new Allegro MX-1. TouchTunes highly recommends reading this guide to familiarize yourself with the installation procedure before installing your Allegro MX-1.

Related Documentation

This guide is designed to get you started quickly with installing and activating a jukebox in a location. For more detailed documentation, refer to the following documents:

- *The TouchTunes Dashboard User Guide*.

You can access this and other documents by doing the following:

- If you do not have access to the TouchTunes Dashboard, request a copy from TouchTunes Technical Support. See "Contacting TouchTunes" on page 4.
- If you have access to the TouchTunes Dashboard, log on to the Dashboard and open the **Documentation** page. See the *TouchTunes Dashboard User Guide*.

Writing Conventions

This guide uses the following documentation conventions.

Notation:	Usage:	Example:
Right-click	Click with the rightmost mouse button.	Right-click the image and choose **Save Picture As**.
Italic	A folder or file path.	Open *C:\My Documents and Settings\My Music*.
Bold	Menu or button commands, as well as labelled areas on the UI.	Choose **My Jukeboxes** from the Navigation menu. Click **OK** when prompted to continue. Navigate to the **Broadband Settings** area.
Vertical bar	Separates menu commands.	Choose **TouchTunes** | **Contacts** from the Navigation menu.
Bold with a colon	Description of what a UI element in a screenshot does.	**Jukebox Location**: Lists jukeboxes by their current location.
Exclamation point within a triangle	Identifies operating and maintenance information to know before use.	**Caution:** Power off the unit before continuing.

Important Safety Information

Please read the following important safety information before proceeding with product installation.

CAUTION: Do not install Allegro MX-1 near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

CAUTION: Do not defeat the safety purposes of the polarized or grounding-type plug. A polarized plug has two blades with one blade wider than the other. A grounding-type plug has two blades and a third grounding prong. The wider blade or the third grounding prong are provided for your safety. If the provided plug does not fit in your outlet, consult an electrician for replacement of the obsolete outlet.

CAUTION: See product enclosure for safety related markings.

CAUTION: Dispose of used batteries in accordance with the regulations in your area. Do not incinerate.

CAUTION: The LCD displays inside Allegro MX-1 contain mercury. Disposal of this material may be regulated in your area due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at www.eiae.org.

CAUTION: Unplug this apparatus when unused for long periods of time.

Do not use this apparatus near water of moisture—Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture are present.

Clean only with a dry cloth—and as directed in this document. Unplug this product from the wall outlet before cleaning.

Do not block any ventilation opening. Install in accordance with the manufacturer's instructions—To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation.

Do not let objects or liquids enter the product—as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only attachments and accessories specified by the manufacturer.

Refer all services to qualified service personnel. Services is required when the apparatus has been damaged in any way: such as power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the apparatus; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

To disconnect this apparatus you must unplug it from the wall outlet, therefore ensure during installation that the plug will be accessible after installation to facilitate disconnecting it from the wall outlet. or equivalent.

To prevent risk of fire or electric shock, avoid overloading wall outlets, extension cords, integral convenience receptacles.

CAUTION: Before operating this unit, ensure that is properly levelled as described in this manual.

Contacting TouchTunes

If you need help with or have questions about this document, contact TouchTunes by:

- Using the email links on the Contacts page on the TouchTunes Dashboard at https://operator.touchtunes.com.
- Calling TouchTunes 24/7 Service Hotline at 847-419-3300.

To help us assist you more effectively with problem reports, the following information may be required when contacting TouchTunes Support:

- Jukebox ID or PlayPorTT ID.
- Jukebox model (e.g., Allegro MX-1, Allegro, Ovation, Maestro ^{II}).
- The serial number of any component you believe to be defective.
- The date/time of the problem.
- Actions performed immediately before the problem occurred.
- Any additional comments.

If you require assistance with this or any other TouchTunes product, please call or email technical support. We value your comments.

2 Allegro MX-1: An Overview

This chapter provides an overview of the Allegro MX-1 jukebox and explains how to access its major components.

Introducing Allegro MX-1

The Allegro MX-1 is TouchTunes' new re-designed and streamlined floor-model jukebox*.

*Models may differ slightly from those illustrated in this document.

U.S. Model: Dual bill acceptor and card reader.

Canadian Model: Single bill acceptor, coin acceptor, and card reader.

Allegro MX-1 (U.S. and Canadian Models)

Evolving from the design of TouchTunes' hugely successful Allegro, the advanced and innovative Allegro MX-1 boasts the following among its attractive design features and benefits:

- A smaller footprint, allowing for installation in locations of a wide variety of shapes and sizes.
- Ease of transport, installation, and maneuverability.
- Simple cabling with intuitive connectivity.
- Improved heat dissipation and cooling capability, thanks to a power supply and heat sink system that is external to the computer.
- Fanless cooling system, eliminating the need for maintenance such as filter replacement and cleaning.
- Availability of fast diagnostics—on site and remotely.
- Quick access to and replacement of any component.
- Newer hard disk technology (SATA vs. IDE).
- Support for simultaneous external HD video for expansion into Gaming and Advertising capabilities.
- Improved durability and reliability.
- The most robust and reliable payment means to date.
- Improved, longer-range remote control receiver.
- Integrated amplification, providing sound for 3 independent audio zones.
- Unparalleled volume and audio clarity.

Components and Features

This section provides details of the Allegro MX-1's key components and features.

Sound

- Built-in Digital Signal Processing (DSP) microprocessor for superior audio quality, equalization, and noise reduction.
- Class D switching amplifiers.
- Built-in three channel (2 X 150 W + 1 X 300 W) to produce a minimum of 104 dB SPL when using the internal acoustics of the Allegro MX-1.
- Second internal amplifier, four full range channels (4 X 150W), for zones two and three (double stereo amplifier).
- Protected against over-voltage, over-current, overload and output short circuits.
- Less than 0.05% THD +N at 75 W into 4 ohms.
- Built-in bass box and satellite speakers (non removable).
- Four external satellite speakers.
- All speakers equipped with fast-on terminal connectors for easy removal and driver replacement.

See "Amplifier Overview" on page 8 for further details.

Touch-screen Monitor

- 19 inches (4:3 aspect ratio).
- Newly designed six-degree tilted monitor for optimized viewing angle.
- Surface Acoustic Wave (SAW) technology.
- LCD panel with a minimum viewing angle of 150 degrees, horizontal and vertical.
- Native resolution of 1024 X 768 (standard TFT Resolution).
- 3 millimeters touch glass thickness.
- Minimum 500 to 1 contrast ratio.

Cabinet

- Wooden construction, 18 millimeters MDF.
- Small footprint, with the mechanical stability required by UL Safety Standards.
- Fanless unit using natural convection air flow.
- Internal lighting and door-open log.
- Service tray providing easy access to components for maintenance.
- Optical sensor-controlled service light, providing illumination of the cabinet's interior and service tray for increased visibility and ease of service.
- Mesh protection at bottom to prevent the entry of insects.
- Cabinet base equipped with four rotating casters and four adjustable levelers.
- Satellite speakers, being part of the cabinet structure.
- Rear of cabinet equipped with handles for maneuverability enable sliding the unit on a pickup bed.
- All screws fastened from the interior, preventing external dismantle.
- Plastic-reinforced base.

Door

- Multipart injection plastic door (thermoplastic).
- Metallic speaker grills.
- Payment means and poster frame sections open together for service access.
- Door parts field-replaceable.

Payment Means

Note: Installed payment means components may vary by region.

- ICT bill acceptors (1000-bill stacker); capable of reading coupons.
- Coin acceptor:
  - For US: none.

- For Canada: $2, $1 and $0.25.
- Credit Card reader (US and Canadian models only).

Note: Before using credit card readers on your jukebox, you must enter a special contractual agreement with TouchTunes. For information, contact TouchTunes.
See "Contacting TouchTunes" on page 4.

Note: The card reader is not capable of reading Smart Cards.

Remote Controls

- One wireless RF remote.
- One wired remote.

Lightshow

- Compatible with TouchTunes' existing system (Color Kinetics/Philips).
- Six channels daisy chained, four channels for the two lenses of the bottom part of the door and two channels for the two lenses on the top.
- Polycarbonate (Translucent PC) lightshow lens.
- External standard DMX interface.

Poster Frame

- Easy access, requiring no tools for poster replacement, accommodating the same overall size poster as the Allegro.
- Backlit with white LED strips.

System

- JCB architecture with DSP technology.
- Gen 3 software compatible.
- 3 stereo out, line-in, mic-in.
- power from 100 to 120 VAC 50-60 Hz, 10.0 amps max
- 0 - 40 deg. C ambient temperature.
- Designed to withstand normal transportation vibration and support frequent moving, (in and out of location, pickup transport).

Amplifier Overview

The Allegro MX-1 jukebox is equipped with two versions of the TouchTunes class D digital audio amplifier:

- A 3-channel amplifier: This amplifier is incorporated into the Allegro MX-1's internal sound system, providing sound for audio zone 1. The 3-channel amplifier supports daisy-chaining of audio components.
- A 4-channel, 2-zone amplifier: This amplifier provides sound for audio zones 2 and 3, and does not support daisy-chaining of equipment.

The 3 and 4-channel amplifiers incorporate the following features:

Feature/Specification	Four-channel amplifier	Three-channel amplifier
Uncompromising sound quality.	✓	✓
Dynamic range of 102dB.	✓	✓
Over-current protection.	✓	✓
Mute input.	✓	✓
Turn-on and turn-off pop suppression.	✓	✓
Over-temperature protection.	✓	✓
High speed switching power supply.	✓	✓
Less heat, smaller footprint.	✓	✓
Total harmonic distortion ≤ 0.05% (1W).	✓	✓
Signal-to-noise ratio ≥ 105dB (A-weighted).	✓	✓
Two balanced inputs.	✓	
One input supporting daisy-chaining.		✓
Two stereo outputs (full-range).	✓	
One stereo output (midrange and high frequencies) One bass output (low frequency).		✓
AC line voltage and frequency: 90 to 130 V AC/ 50 - 60 Hz	✓	✓
4-ohm (minimum) load per channel (150W).	✓	✓
8-ohm per channel (75W).	✓	✓

Benefits of these amplifiers include:

- Requirement of only N-Channel MOSFET output transistors.
- Dramatic improvement in efficiency versus Class AB amplifiers.
- Signal fidelity equal to high-quality linear amplifiers.
- High dynamic range compatible with digital media.

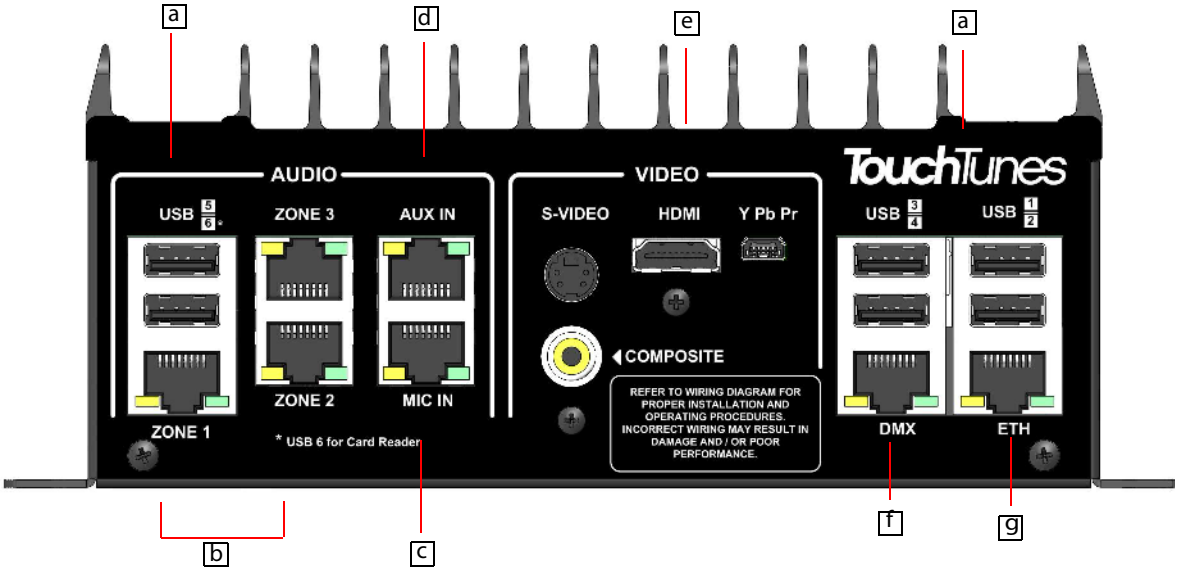
JCB Computer Overview

The central computer in your Allegro MX-1 jukebox, called the JCB, is a specially designed computer mounted inside the Allegro MX-1 that runs the jukebox. Like a regular laptop or desktop computer, the JCB contains a hard drive and USB connectors for attaching peripherals.

To conserve space, the JCB has connections on both its top and bottom panels, as well as controls and indicators on its front panel.

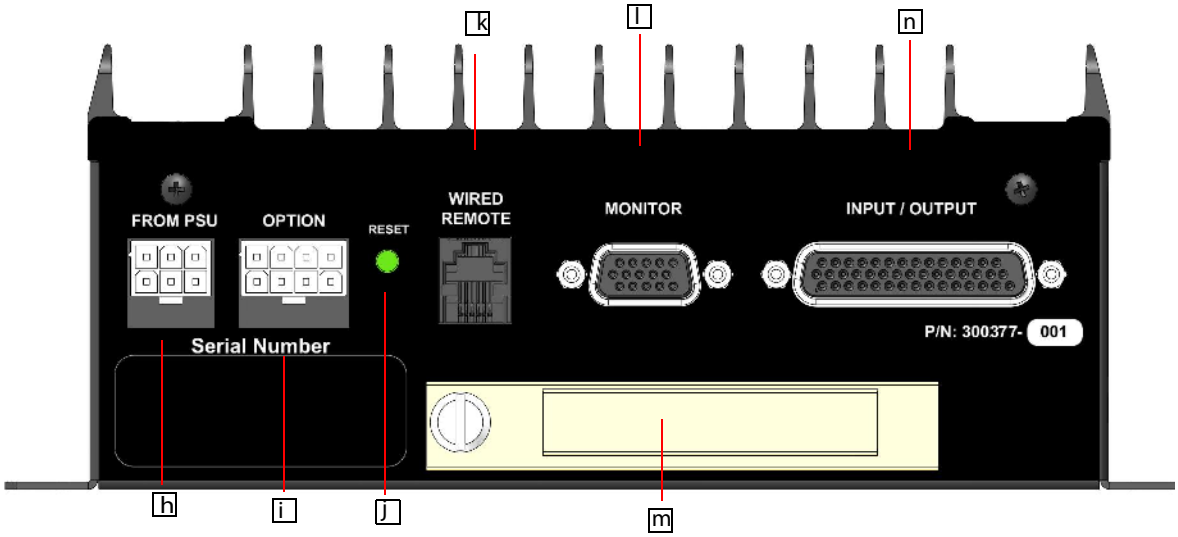
Refer to the following figures to identify all components and connections on the JCB for your jukebox.

Top Panel



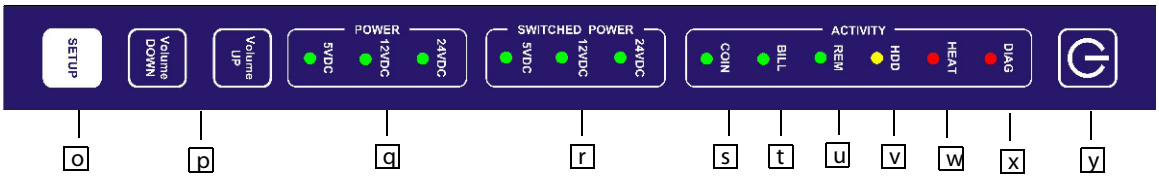
Layout of JCB: Top Panel—a) USB ports for peripheral devices; b) Audio zone outputs; c) Microphone input; d) Auxiliary audio input; e) External video outputs; f) External light show connector; g) Ethernet port

Bottom Panel



Layout of JCB: Bottom Panel—h) Power supply connector; i) Power for external equipment; j) System reset (reboot); k) Wired remote connector; l) Touchscreen connector; m) Hard disk drive; n) I/O connector

Front Panel



Layout of JCB: Front Panel Controls—o) Setup button; p) Volume control buttons; q) Power status indicators; r) Switching power status indicators; s) Coin acceptor activity indicator; t) Bill acceptor activity indicator; u) Wired remote activity indicator; v) Hard drive activity indicator; w) Overheat indicator; x) Diagnostic LED; y) Power button for monitor and acceptors

Note: The power button (y) does not turn off the jukebox computer.

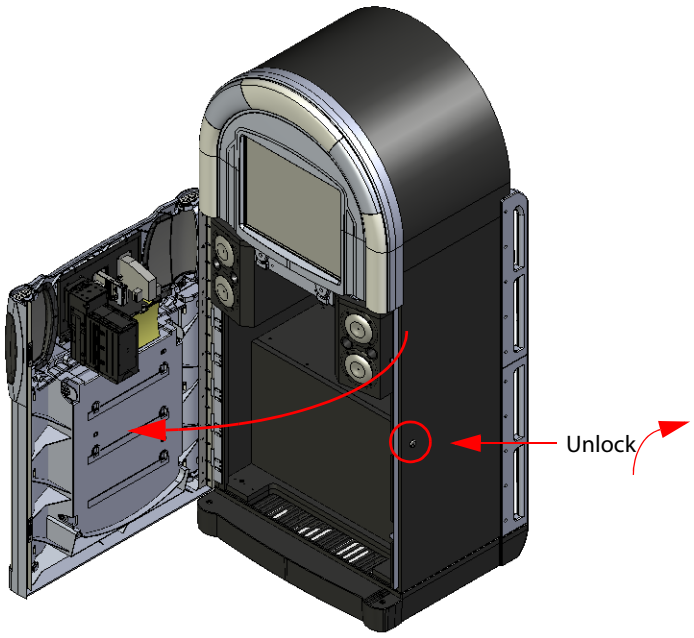
Accessing Components

This section explains how to gain access to Allegro MX-1's main components for the initial setup and subsequent servicing.

Opening the Main Enclosure

To open the main enclosure:

1. Locate the key for the Allegro MX-1.
2. Unlock the Allegro MX-1 from the right side of the jukebox and then slowly swing open the Allegro MX-1 case.

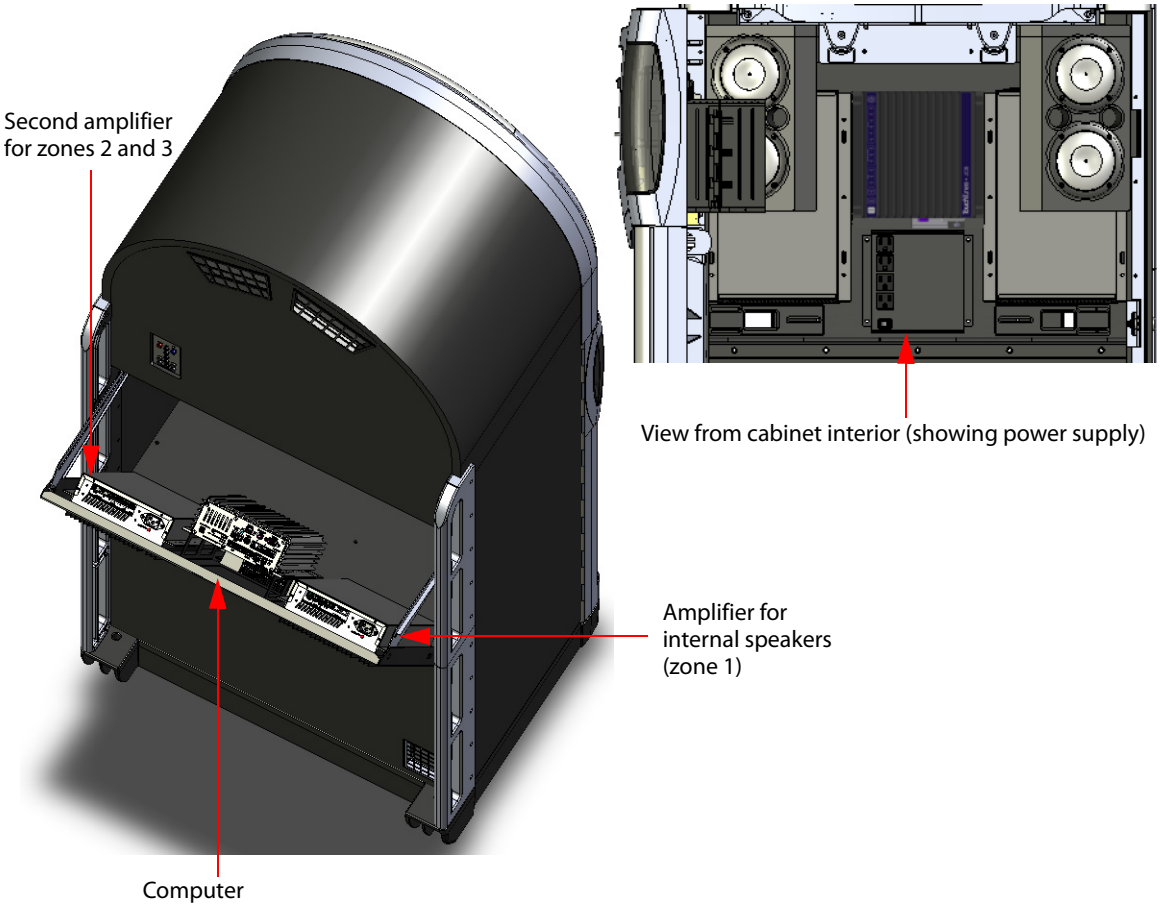


Opening the Allegro MX-1

When the jukebox is powered up, and the door is opened, the optically controlled service light illuminates the interior of the cabinet. See “Service Light” on page 16 for details.

Accessing the Service Tray

The service tray, located in the rear of the enclosure, provides access to the computer, amplifier(s) and power supply.



Service tray

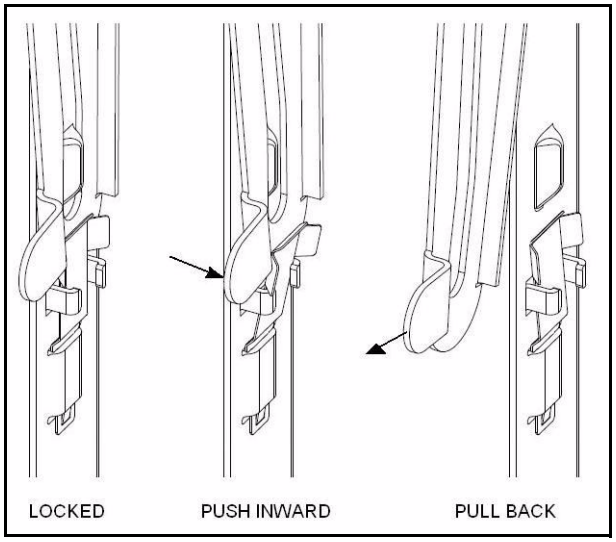
The service tray is hinged at the bottom and travels outward on two slide rails fastened to the upper part of the tray. To prevent access by unauthorized personnel, the service tray must be unlocked from within the cabinet’s interior.

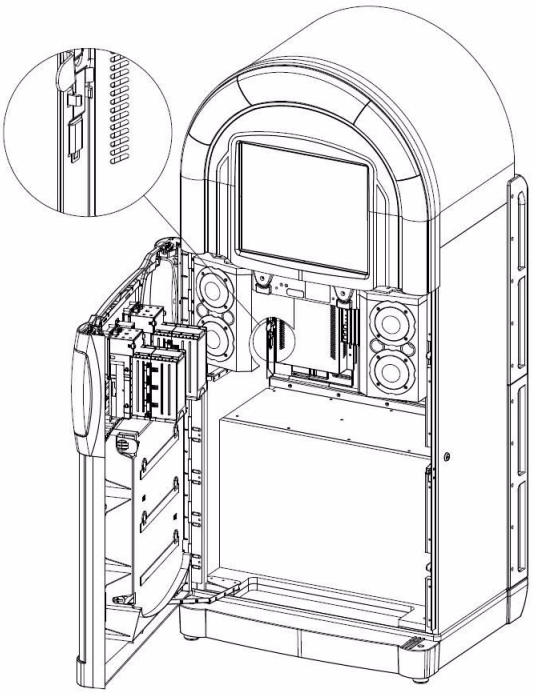
Opening the Service Tray

To open the service tray:

1. Unlock and open the front door of the Allegro MX-1, as described in “Opening the Main Enclosure” on page 11.

2. Locate the two locking slide rails on either side of the service tray at the rear of the cabinet's interior.





Opening the service tray

3. Disengage the rails from the locking tabs by pressing them inward toward the center of the enclosure, and then pulling back as far as they can travel.
4. Gently push the service tray outward, letting it slide along the rails.

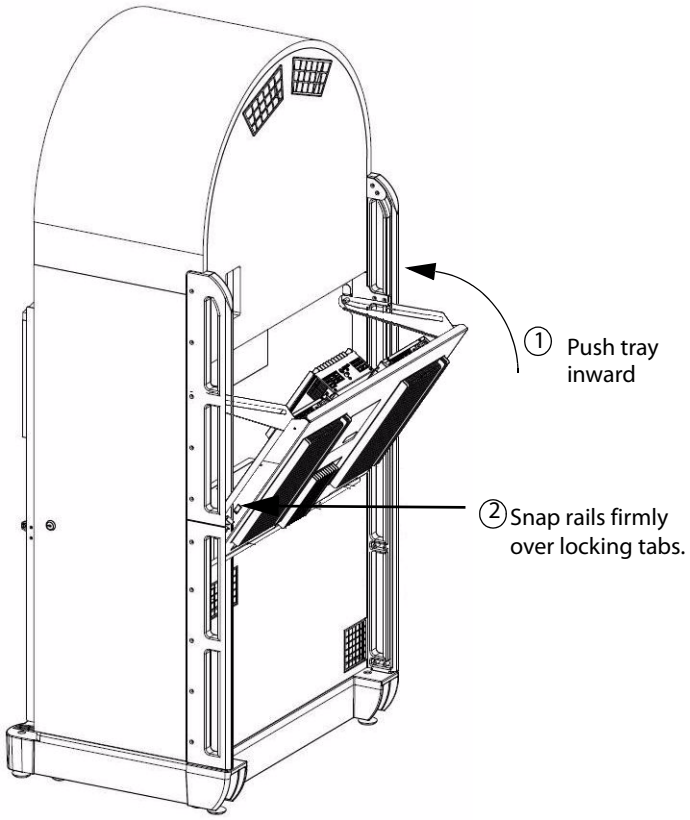
Components in the service tray are also accessible from the interior of the cabinet, allowing convenient access to the bottom panel of the JCB computer.

Closing/Locking the Service Tray

In order to prevent unauthorized access to the Allegro MX-1's components, it is important to close and lock the service tray when you have completed servicing.

To close and lock the service tray:

1. Push the service tray inward until it is flush with the rear wall of the cabinet.

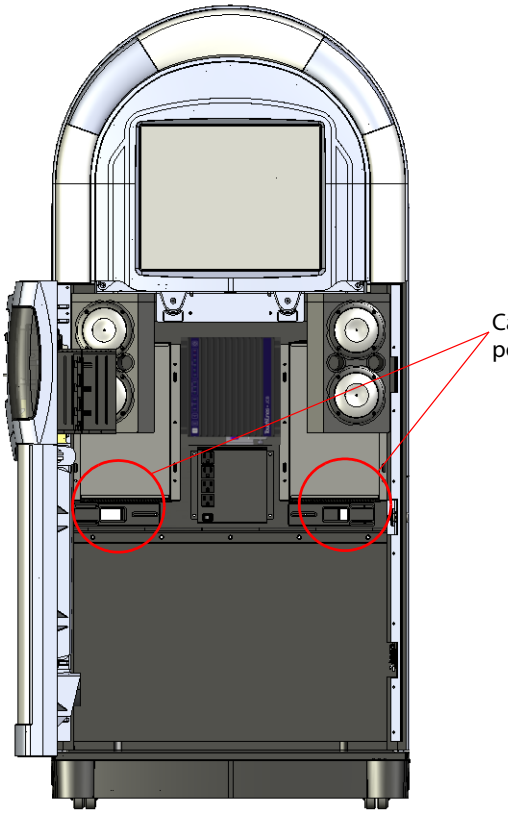


Closing and Locking the Service Tray

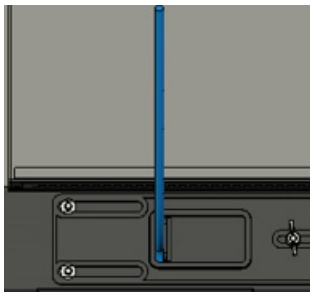
2. From the interior of the cabinet, ensure that the service tray is locked in place (i.e., the rails are firmly seated over the locking tabs in the metal frame of the service tray).

Routing Cables to the Service Tray Components

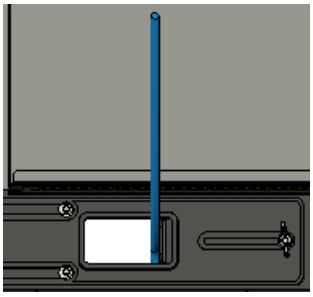
The Allegro MX-1 is designed with two cable access ports on the service tray that allow you to route outside cables (such as for telecommunications and speakers for zones 2 and 3) to internal jukebox components. The cable access ports also act as wire-strain relief devices, providing slack for cables inside the jukebox and covering the opening to the interior to keep dust out.



Cable access ports on service tray



Closed position; wing nut tightened to secure cable.



Open position; wing nut loosened to allow access.

Note: Only route cables in to and out of the jukebox through the provided cable channel opening. Do not route cables through any other openings in the jukebox, such as air vents. Otherwise, the jukebox may overheat and shut itself down.

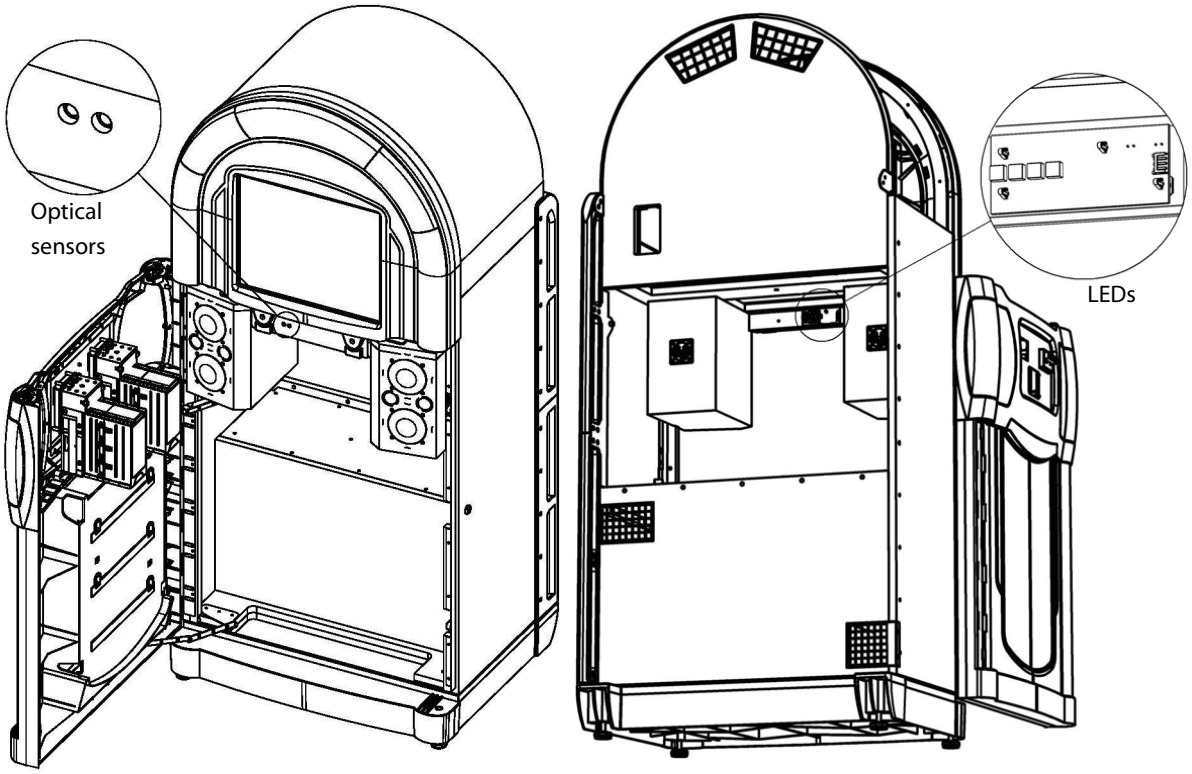
To prepare for cable routing in the jukebox:

1. Identify the cable access ports on the Allegro MX-1's service tray.
2. Loosen the wing nuts for wire-strain relief so you can move the sliding tab.
3. Adjust the sliding tab so you can bring cables into the jukebox through the cable channel opening.

Once the cable channel is open and the wire-strain relief sliders are loose, you are ready to make connections to the jukebox.

Service Light

The Allegro MX-1 is equipped with a service light module that plugs into the main wiring harness and illuminates the interior of the cabinet, facilitating servicing in low-light situations.



Service Light Module, Front and Rear Views

When the door of the Allegro MX-1 is opened, optical sensors mounted in a circuit board in the interior of the cabinet activate a panel of high-intensity LEDs that are pointed toward the service tray, providing illumination to the interior.

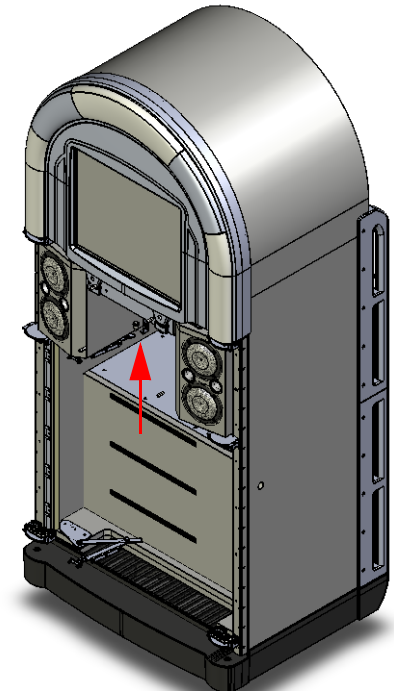
When the door is closed, the service lighting extinguishes.

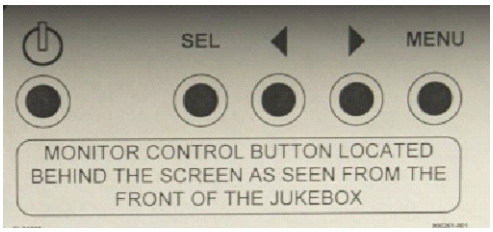
Note: A reflective strip for the optical sensors is mounted on the interior of the door (adjacent to the payment acceptors). To ensure proper continued operation of the service light component, TouchTunes recommends that you keep this reflective surface clean when making a service call.

Accessing the Rear of Monitor

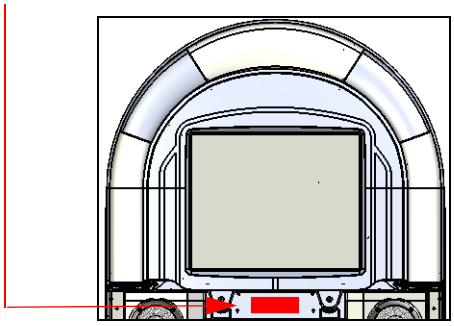
Should minor adjustments be required, you can access the On-Screen Display (OSD) controls on the rear of the monitor by reaching up from within the enclosure.

Note: Refer to the legend provided on the self-adhesive label affixed to the cabinet below the monitor bezel to guide you when performing monitor adjustments.





Sample monitor control legend.
Note: The controls on your model may differ.



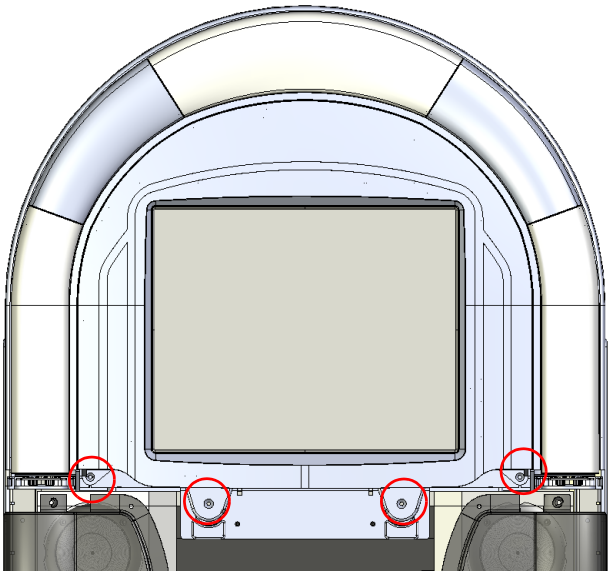
Accessing the monitor

To remove the monitor entirely for servicing or replacement:

1. Unscrew and remove the four screws that fasten the monitor assembly in place.

Note: The monitor is seated in the cabinet such that it cannot fall forward when the screws are removed.

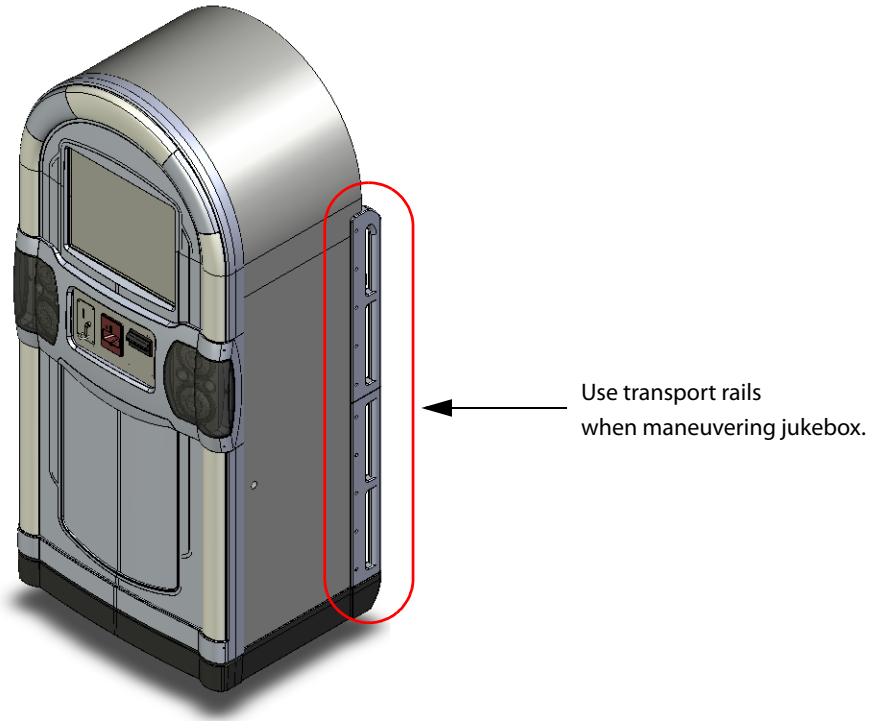
2. Grasp the monitor assembly by its bottom center, lift upward and then outward.



Location of monitor mounting screws

Transporting Allegro MX-1

The Allegro MX-1 is equipped with transport handles built in to the rear of the enclosure. Use these handles when transporting the Allegro MX-1 and when maneuvering it into position at the location.

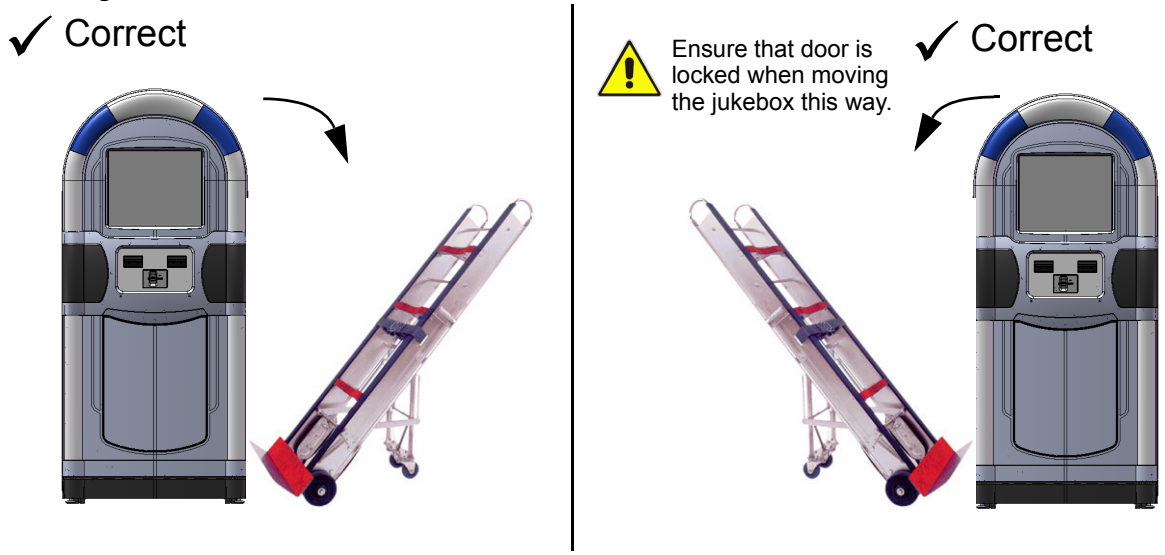


Transport rails

You can lay the Allegro MX-1 on its back when transporting it, and use the transport handles as rails to slide it in or out of a pickup truck bed or van. Resting it on its handles also provides protection for unpackaged transportation of the jukebox, preventing scratching of the cabinet.

CAUTION: Exercise caution when tipping the Allegro MX-1 onto an appliance dolly or hand cart; it can fall onto you and cause serious injury.
Always have adequate assistance when moving the Allegro MX-1, particularly when negotiating stairs—it is very heavy (269 lbs/122 kg).
Follow all appropriate safety precautions.

The transport handles also perform a secondary function, providing the necessary space between the wall and the cabinet for optimal performance of the bass box.
When transporting the Allegro MX-1, always tip the Allegro MX-1 onto the hand cart from its left or right-hand side.



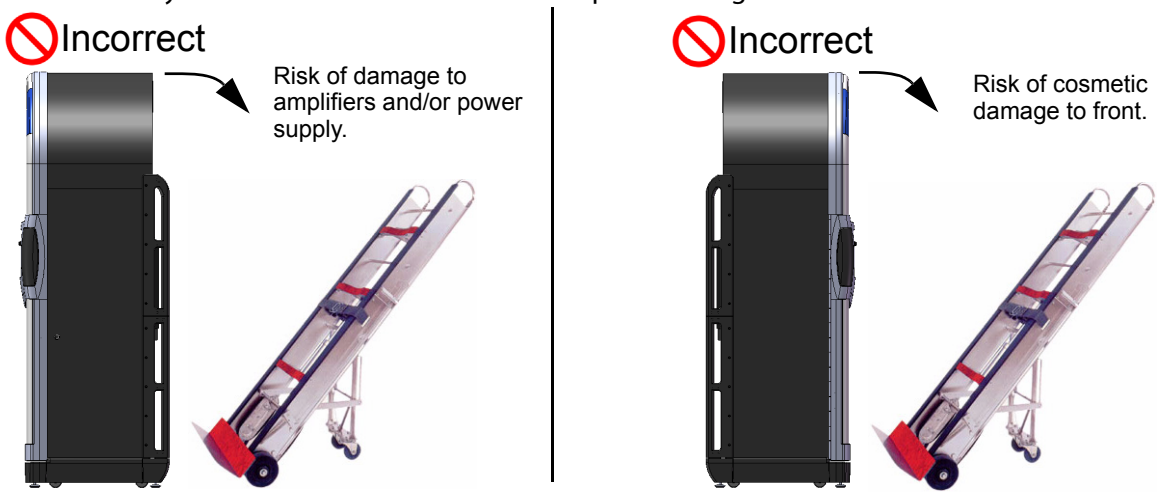
Using a Hand Cart

Note: If tilting the jukebox from its left-hand side onto a cart, ensure that the door is closed securely and locked, otherwise it may flip open, causing damage or personal injury.

Why transport the jukebox this way?

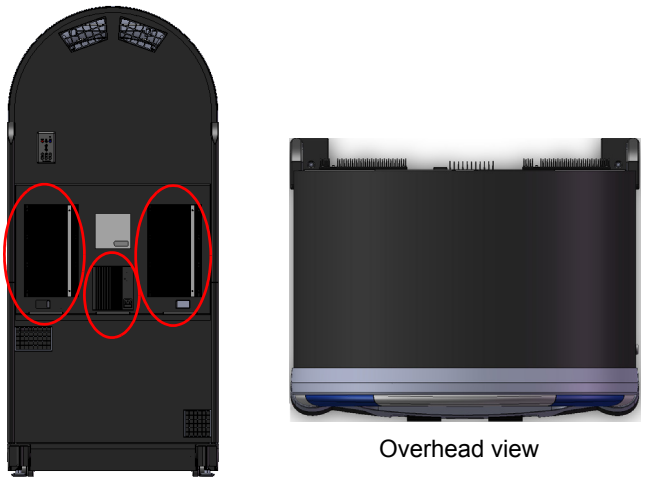
- By tilting the jukebox frontwards onto a cart, you risk scratching or cracking the moulded plastic of the cabinet, the touch screen, and the light show lenses.

• By tilting the jukebox backwards onto a cart, you risk placing the weight of the jukebox on the heat sinks of the 2 amplifiers, which may cause them to dislodge from their mountings on the service tray and become vulnerable to subsequent damage.



Do Not Rest Jukebox on its Front or Back

Never Place a Load on the Power Supply and Amplifier Heat Sinks.
To provide optimum cooling capability, the heat sinks of the Allegro MX-1's power supply and two digital audio amplifiers are on the exterior of the cabinet (mounted on the service tray at the rear).



Overhead view

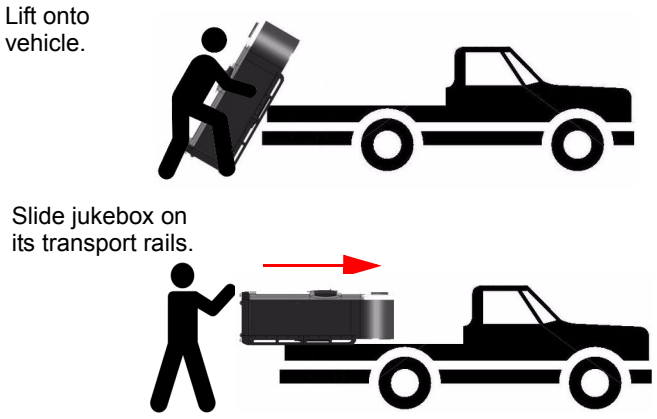
When transporting the Allegro on the bed of a pickup truck or the floor of a van, always slide the unit on its transport rails into the vehicle, and let the weight of the cabinet rest solely on the transport rails. Do not introduce any obstacles between the vehicle's floor and the cabinet that may cause the cabinet to rest on the heat sinks of the amplifiers or power supply.

NEVER LAY THE CABINET ON ITS BACK AND TRANSPORT IT WITH A HAND CART BENEATH IT!

When transporting the Allegro MX-1:

1. Turn off the system power switches on the Allegro MX-1's computer and internal power supply.

2. Disconnect the power and network cables.
3. Close and lock the jukebox.
4. To the extent possible, protect the jukebox for transportation.
5. Maneuver the jukebox close to the rear of the vehicle, remove it from the hand cart, and position it with its back facing the vehicle.
6. With an assistant, tilt the jukebox backward and lift it onto the vehicle.



Transporting Allegro MX-1 on a Truck Bed

7. Slide the jukebox on its transport rails onto the vehicle.
8. Transport the jukebox to the new location.

3 Pre-Installation

This chapter explains how to prepare to install a TouchTunes Allegro MX-1 jukebox for a location, including setting up communications connections and unpacking the jukebox.

Unpacking and Checking Jukebox Components

A TouchTunes jukebox is delivered in several boxes, including boxes for the jukebox hardware components and a parts kit. The following table shows the dimensions and weight of the Allegro MX-1 jukebox:

	Height	Width	Depth	Weight
Crated	71 1/4" (181 cm.)	30 1/2" (77.5 cm.)	24 3/4" (63 cm.)	335 lbs. (152 kg)
Uncrated	66 3/4" (169.5 cm.)	29 3/4" (75.6 cm.)	24" (61 cm.)	269 lbs. (122 kg)

Before you install the jukebox, you must ensure that you have received all jukebox hardware components and that both hardware components and the items in parts kit are in good condition.

To check that you have all jukebox components:

1. Verify that you have received the following hardware components for the Allegro MX-1 jukebox:

Component Quantity	Component Description
1	Allegro MX-1 Digital Jukebox (p/n 700222-001)
1	3-prong power cord
1	Parts kit

2. Open the Parts kit and then verify that it contains all of the following components:

Component Quantity	Component Description	TouchTunes Part Number
1	Single frequency remote control kit	600069-001-001
4	External satellite speakers	700185-001
2	Keys (attached to rear of jukebox)	400157-001
1	Microphone box	700166-001
1	DI box (line input)	700167-00
1	Eurostyle terminal connector (4-position)	100000-001
1	5-mm. hex-head bit for adjusting levellers	N/A

3. Check the condition of all hardware components and parts kit items to ensure they are in good condition.

Caution: Do not attempt installation if any jukebox hardware component or item in the parts kit is damaged. Contact your distributor or TouchTunes to report the damage immediately and request replacement parts.

Setting Up a Broadband Connection

Every night, a TouchTunes jukebox contacts the main TouchTunes server over the Internet to do the following tasks:

- Download any new songs chosen by location owner or operator through the TouchTunes Dashboard.
- Download any new updates to the jukebox system software.
- Download the TouchTunes music catalog.
- Report the number of plays per song for music royalty calculations.
- Report daily income for the jukebox.

The connection to the Internet is provided through an Internet Service Provider (*ISP*). ISPs normally offer two different types of Internet connections: dial-up and broadband. TouchTunes recommends using a broadband connection, as the connection type you chose has an impact on the infrastructure needed for the jukebox as well as the speed of jukebox communications. A jukebox using a broadband connection uses a special, high-speed network to connect to the Internet and to the TouchTunes server. Broadband connections allow much faster communications speeds than dial-up connections, but require a broadband modem and/or *router* (computer networking device) to connect the jukebox to the high-speed network.
Use the following guidelines to help you choose and set up the Internet connection type for the jukebox:

- TouchTunes recommends using broadband Internet connections for jukeboxes whenever possible. The broadband connection:
  - Permits the jukebox to download new songs much more quickly than over a dial-up connection.
  - Allows you to change jukebox settings via the TouchTunes Dashboard and apply them immediately to the jukebox.

- Provides download on demand. Any patron selections not available in local content are downloaded and played directly, thus increasing patron satisfaction and jukebox revenue. Download on demand is a feature that is not available using a dial-up connection.
- Enables you to take advantage of further benefits, such as credit card payment and *myTouchTunes*, a feature that enables patrons to create their own virtual music catalogs on the Web and access them at your locations.

- For all connections, ensure you use high-quality cable and make the cable run as short as possible to minimize potential problems due to line noise and interference.
- For broadband connections, note that the broadband modem and router may be included in a single device, depending on the equipment used by the ISP and the networking setup for the location. Both the broadband modem and the router must be installed and configured properly for Internet access before you can set up a broadband connection for the jukebox.

Note: Dial-up Internet connection is supported and is available as an option. Contact TouchTunes for details. See "Contacting TouchTunes" on page 4.

Preparing Tools for Installation

The following list shows tools that you may require to install the Allegro MX-1 jukebox. Ensure that you have all tools before beginning installation.

- Spirit level to ensure jukebox is level.
- Phillips screwdriver.
- Flat-head screwdriver.
- Adjustable wrench for tightening bolts or nuts.
- 5-mm. hex-head bit (included in parts kit).
- Additional flat telephone cable to reconnect the wired remote.

When setting up a broadband connection for the Allegro MX-1, you may also require the following tools:

- A laptop computer with a network card and a Web browser, such as Microsoft Internet Explorer to test Internet connectivity.
- Pre-wired Cat5 network cable (or cable, crimp tool and RJ-45 connectors) to connect the laptop and/or jukebox to the router. See "Connecting the Allegro MX-1 to the Broadband Network" on page 33.

4 Installing the Allegro MX-1 Jukebox

This chapter explains how to install the Allegro MX-1 jukebox, including

setting up its hardware and connecting it to a broadband network

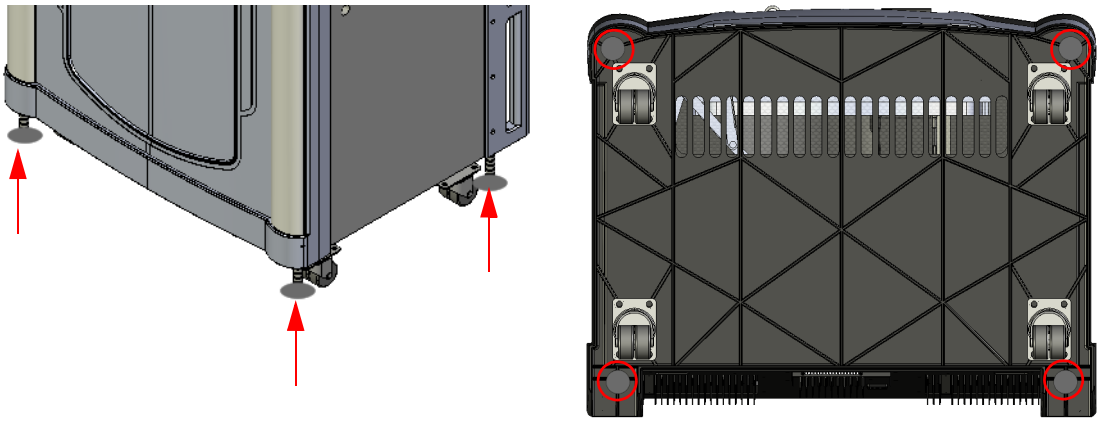
Installing the Allegro MX-1 Jukebox

In this section, you install the Allegro MX-1 jukebox, level it so it is stable and then open its case. To install and level the Allegro MX-1:

1. With the jukebox case closed, try to move the Allegro MX-1 both slightly forward and backward, then slightly sideways to see if the jukebox is resting on its wheels:
   - If the Allegro MX-1 moves freely on its wheels, go to step 5.
   - If you are unable to move the Allegro MX-1 in any direction, continue to the next step.

CAUTION: The Allegro MX-1 jukebox is heavy and can injure or crush a person if it hits or tips over onto someone. When doing this step, do not move the jukebox quickly or tip it over.

2. If you were unable to move the Allegro MX-1, locate the four levellers below the front and rear of the case.



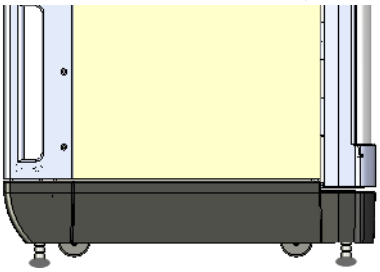
Levellers for the Allegro MX-1; frontal and bottom views

The front and rear levellers must be adjusted from the top, using a long-handle driver with an Allan bit (included in your parts kit). To access the front levellers, the door of the cabinet must be open.

Accessing front and rear levellers

3. Raise the levellers until the Allegro MX-1 is resting on all of its wheels.
4. (Optional) Repeat step 1 to ensure you can move the jukebox in all directions.
5. Move the Allegro MX-1 **slowly** from where you unpacked it to its final position.
   If you wish, you can position the jukebox directly against a wall; the rear transport rails of the Allegro MX-1 provide sufficient clearance between the wall and the cabinet to allow for optimal bass response of the installed bass speaker when playing songs.
6. Using a long-handle driver and a spirit level, adjust the levellers until:
   • The Allegro MX-1 is level front-to-back and side-to-side.

- The front of the Allegro MX-1 is resting on its levellers instead of its wheels.



Allegro MX-1 resting on levellers (side view)

7. Try to move the Allegro MX-1 both slightly forward and backward, then slightly sideways, to ensure it is stable and cannot move.

Replacing the Lock for the Allegro MX-1

By default, locks for all TouchTunes Allegro MX-1 jukeboxes are keyed exactly alike. You can replace the pre-installed lock in any TouchTunes jukebox with another lock that is keyed differently. Replacing the lock in each jukebox improves on-site security and significantly reduces the chance of someone breaking in to the Allegro MX-1.

The locks shipped with TouchTunes Allegro MX-1 jukeboxes are flat key locks. Ensure any replacement locks have the same dimensions before performing the replacement.

Thread Length

1-1/8 in. (28mm)

Thread Diameter

3/4 in. (19mm, M19 x 1.0)

Installing the Hard Drive

Among its many new features, the JCB comprises different hard drive technology, i.e., **SATA** vs. **IDE**. As such, it is extremely important to note the following points before proceeding with hard drive installation:

- The SATA hard disk drive is designed for use in a JCB computer only, and is incompatible with previous TouchTunes jukebox computers.
- IDE hard drives such as those used in MJS computers are suitable for use in MJS, Tower, and Maestro jukeboxes only, and cannot be installed in the JCB.

WARNING: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of your jukebox computer. By doing so, you risk serious damage to the hard drive and the computer.

Because of this physical difference between SATA and IDE hard drives, Operators who are accustomed to the older hard drives may inadvertently fail to seat the connector firmly enough into the JCB's hard drive slot when installing the hard drive.

Under such circumstances, the pronounced bass response of the sub woofer housed in the cabinet of some jukeboxes may cause sufficient vibration to cause the SATA hard drive's connector to partially dislodge from its seating, causing erratic and unpredictable behavior of the jukebox.

Symptoms may include:

Skipping of the song currently playing.

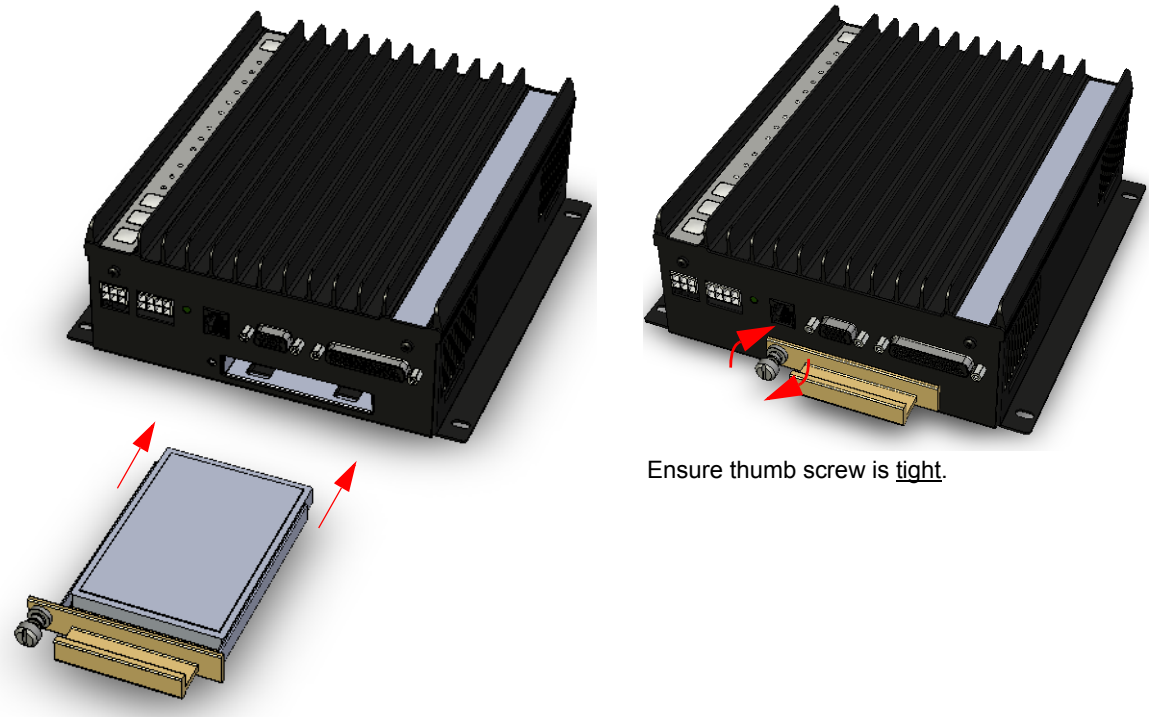
Loss of some or all I/O functions, even after the hard drive is reseated.

This behavior is remedied by ensuring that the hard drive is reseated properly in its slot and then rebooting the jukebox.

In order to prevent such behavior, perform the following procedure when installing the hard drive:

1. Ensure that the JCB is powered OFF at the switch on the power supply.
2. Align the hard drive tray with its slot on the bottom panel of the JCB.

The hard drive tray cannot be inserted in its slot until it is properly aligned.



Inserting the Hard Drive

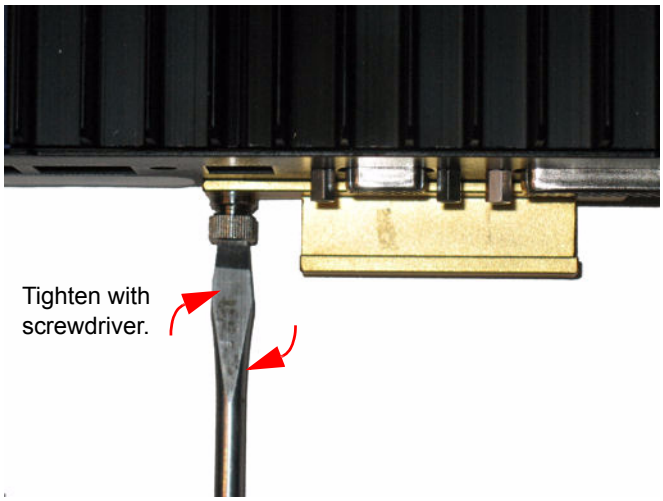
3. Insert the hard drive tray in the slot and then gently push the tray in until it is completely seated.
4. Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

Note: Operators who are accustomed to installing the IDE drives found in previous models of TouchTunes jukeboxes may find that the thumb screw on the SATA enclosure requires significantly more rotations before the hard drive is properly seated.
Do not hesitate to screw the enclosure in firmly—there is no danger of stripping or breakage of fasteners by applying the proper finger-tight pressure on the thumb screw.

Once you have finger-tightened the thumb screw, perform the following steps in order to verify that the hard drive is properly secured:

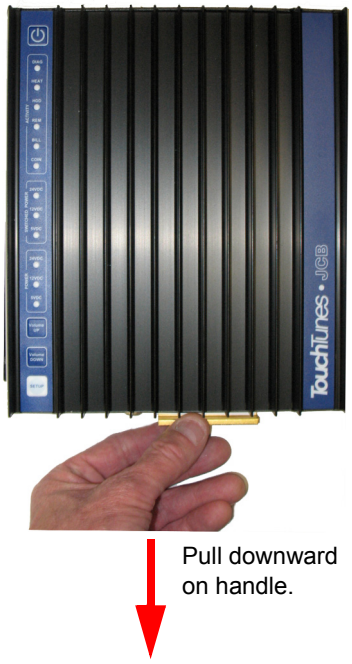
5. Using a screwdriver with a 3/8" straight blade, tighten the thumb screw firmly into the JCB.

CAUTION: Using a screwdriver applies significantly more torque than hand-tightening.
Do not over-tighten.



WARNING: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of your jukebox computer. By doing so, you risk serious damage to the hard drive and the computer.

6. Test whether the hard drive is firmly seated by pulling down firmly on the handle of the hard drive tray.



Testing for proper Seating of Hard Drive

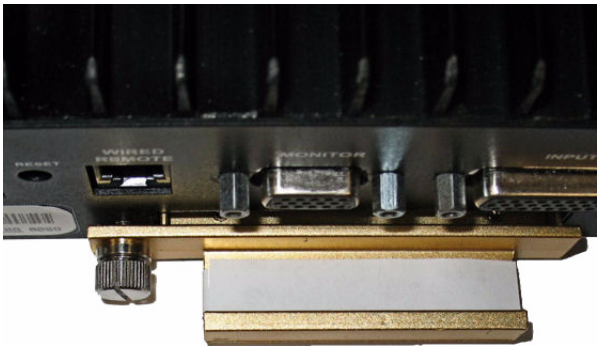
The hard drive is secured properly when:

- The thumb screw is completely compressed and covered by the cowl head of the thumbs screw (i.e., the spring is not visible).
- There is no gap between the edge of the hard drive tray and the JCB.

• There is no play between the hard drive and the JCB when you pull downward on the handle of the hard drive tray.

If you detect any play in the hard drive tray, then, using a slot-head screwdriver, tighten the thumb screw firmly into the JCB and test again until no play is detected.
Refer to the following figure when verifying correct hard drive installation.

Incorrect Installation



Gap between hard drive tray and JCB; spring not fully compressed.

✓ Correct Installation

Hard drive tray flush with JCB; spring fully compressed.

When the hard drive is installed properly, the tray should be flush with the JCB. If a gap remains between the tray and the JCB after you have hand-tightened the thumb screw, you must use a screwdriver to finish tightening the screw.

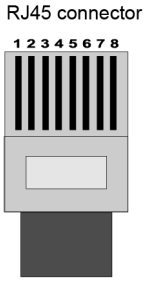
Connecting the Allegro MX-1 to the Broadband Network

To connect the Allegro MX-1 to the broadband network:

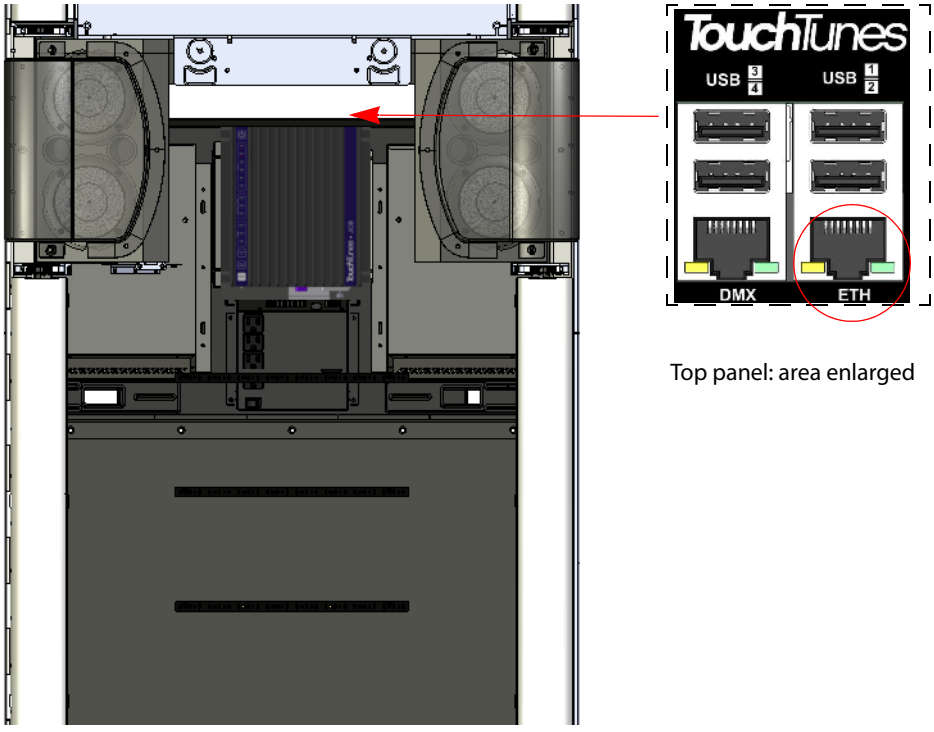
1. Unlock and open the jukebox, as described in “Opening the Main Enclosure” on page 11.
2. Open the service tray, as described in “Accessing the Service Tray” on page 12.
3. Ensure that the cable access/strain-relief ports are in the open position, as described in “Routing Cables to the Service Tray Components” on page 15.
4. Locate the RJ-45 Ethernet cable for the broadband connection.

The cable used for a broadband connection is straight-wired Ethernet cable with RJ-45 connectors at both ends. You can either purchase this cable from an electronics store or wire it yourself using the following pinout guide.

Wire Color at Near End	Pin at Near End	Pin at Far End	Wire Color at Far End
White + Orange	1	1	White + Orange
Orange	2	2	Orange
White + Green	3	3	White + Green
Blue	4	4	Blue
White + Blue	5	5	White + Blue
Green	6	6	Green
White + Brown	7	7	White + Brown
Brown	8	8	Brown



5. Connect either end of the cable to the broadband modem or router.
6. Route the free end of the cable in to the jukebox through the cable access port in the service tray.
7. Connect the free end of the cable to the port labelled **ETH** on the top panel of the JCB.



Top panel: area enlarged

Connecting Allegro MX-1 to the network

The physical connection from the jukebox to the broadband network is now complete. You will later configure the communications settings for the broadband network so the Allegro MX-1 can contact the TouchTunes server using this connection.

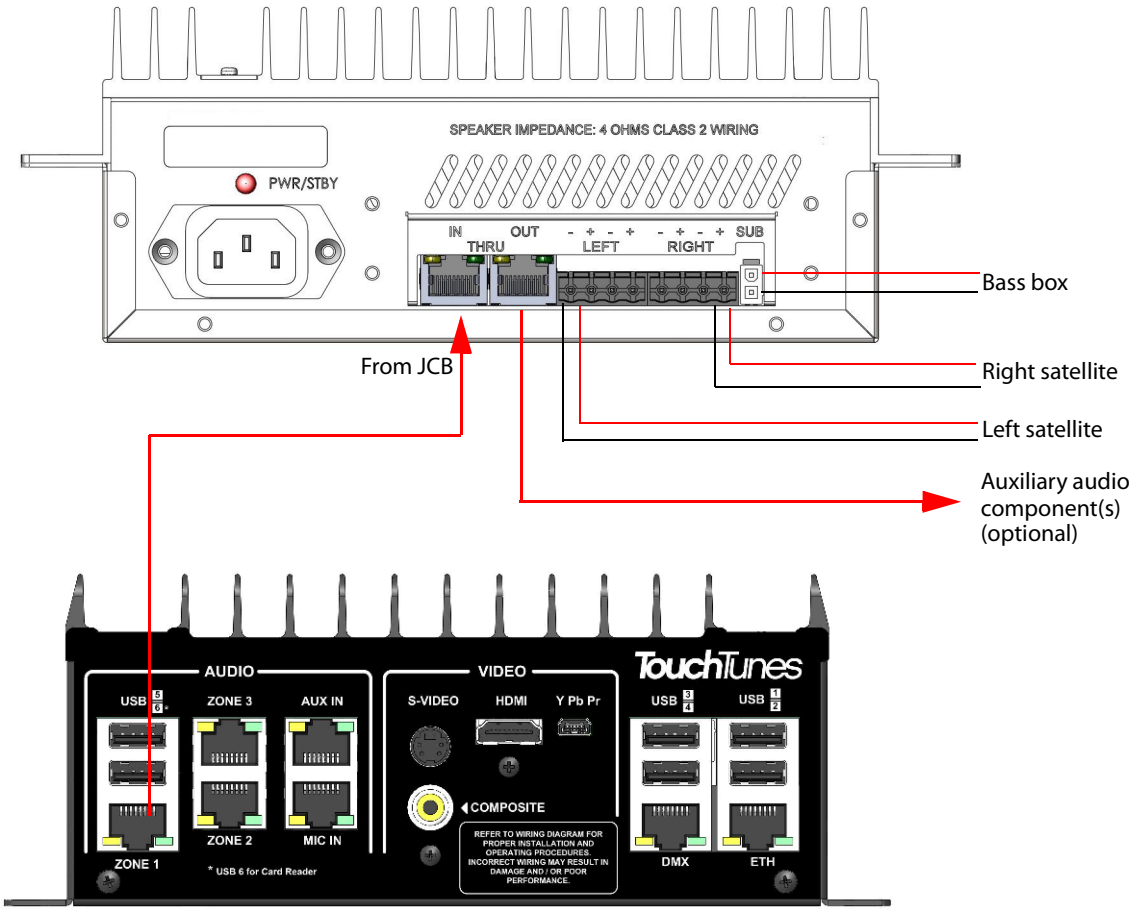
Connecting Audio Speakers to the Allegro MX-1

The Allegro MX-1 can deliver sound into three zones. The volume, bass, treble, and balance for each zone can be set independently.

The Allegro MX-1's internal (zone 1) sound system consists of a 3-channel digital audio amplifier which delivers sound to the bass box and two satellite speakers. The wires for the internal sound system are already wired to the connections on the amplifier, speakers, and JCB when the jukebox is shipped.

Note: For optimum sound coverage, TouchTunes recommends disconnecting the internal satellites and, instead, connecting all the external satellites to the internal (zone 1) sound system.

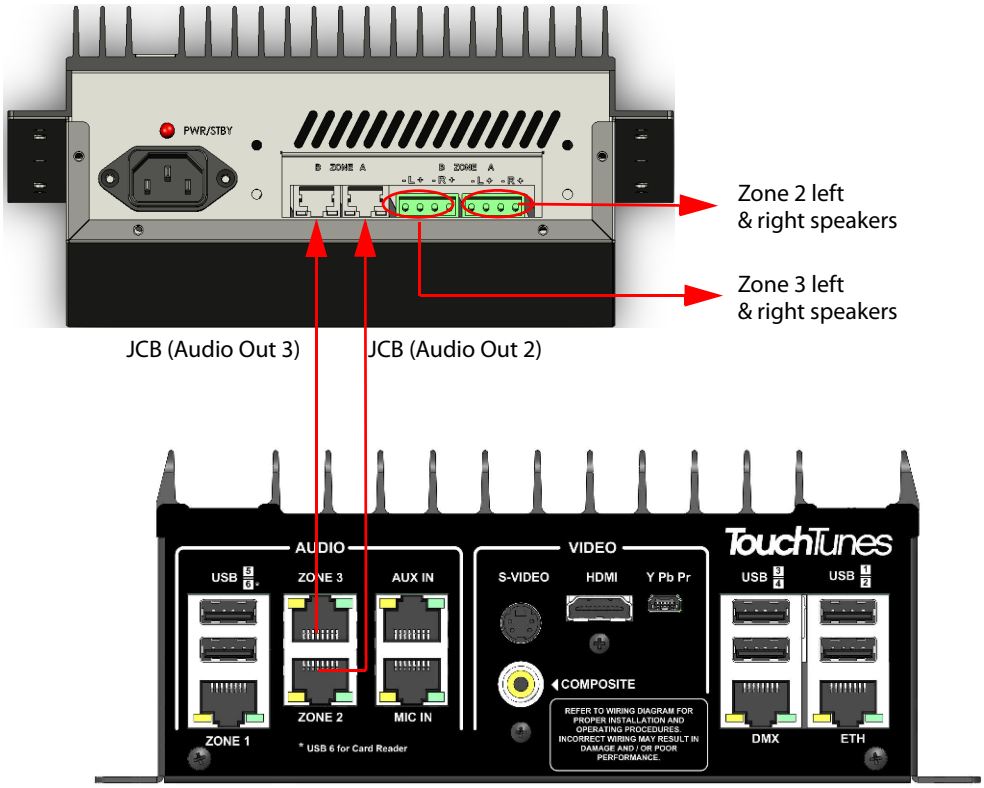
IMPORTANT: When connecting the external satellite speakers, it is EXTREMELY IMPORTANT that you follow the instructions in "Connecting the Supplied External Satellite Speakers" on page 37.



3-channel amplifier (zone 1)

The 3-channel amplifier provides two RJ45 input and output connectors to connect the amplifier to other audio equipment via standard category 5 cable (daisy-chaining of audio components).

A second 4-channel amplifier is provided to accommodate zone 2 and zone 3 audio requirements.



4-channel amplifier (zones 2 and 3)

Unlike the 3-channel model, the 4-channel amplifier does not support daisy-chaining of components; the RJ45 connectors for Zones A and B are both inputs.

Connecting the Supplied External Satellite Speakers

WARNING: When connecting external satellite speakers, you **MUST**:

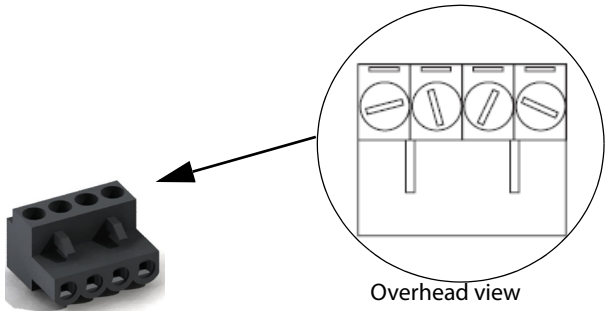
- Disconnect all the internal satellite speakers (not the bass box).
- Connect all four external satellite speakers (TouchTunes p/n 700185-001).

The external and internal satellite speakers cannot work together.

THIS PROCEDURE IS APPLICABLE TO the 3-CHANNEL AMPLIFIER USING ZONE 1 AUDIO ONLY.
DO NOT ATTEMPT CONNECTION OF INTERNAL OR EXTERNAL SATELLITES TO AUDIO ZONES 2 OR 3.

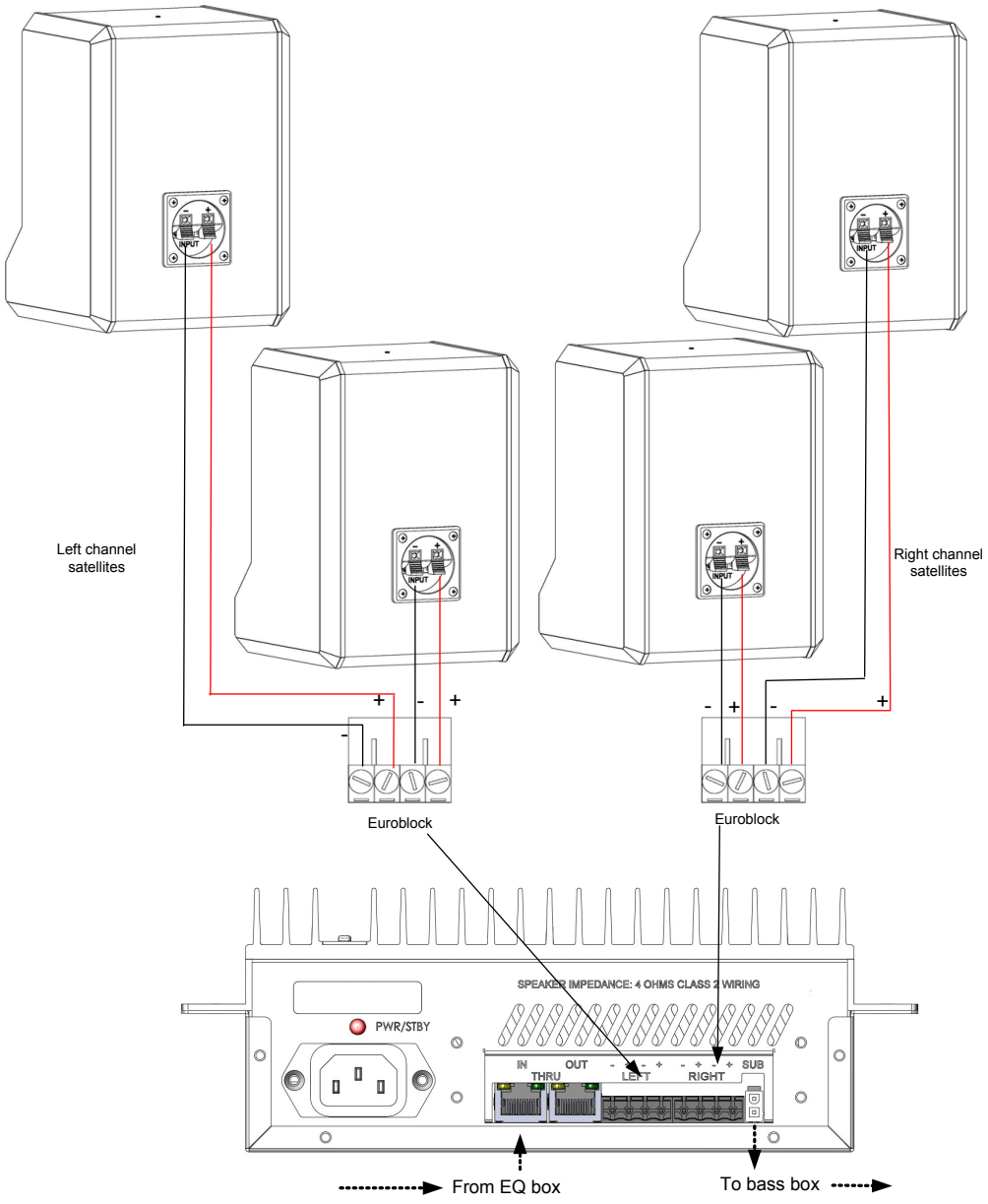
Your Allegro MX-1 is shipped with four external satellite speakers and 4-terminal Euroblock connectors to connect them to the jukebox's amplifier.
This section explains how to connect the four external satellite speakers to the Allegro MX-1's 3-channel amplifier.

1. Prepare the satellite speaker cables by stripping the ends of their connector wires, exposing approximately 1/4" of wire.
2. Locate the supplied four-slot Euroblock connector for the satellite speakers.
3. Loosen the screws along the top of the connector using a flat-head screwdriver, if necessary.



Euroblock terminals

4. Wire the ends of the 2 left satellite speaker wires to the Euroblock connector and ensure correct polarity by using the following figure as a guide.



Connecting Satellite Speakers

5. Using a flat-head screwdriver, tighten the screws to secure the speaker cables to the connector.
6. Repeat this procedure for the two right channel satellite speakers.

REMINDER: You must connect all four satellite speakers to ensure proper impedance and best performance.

7. Press the Euroblock connector firmly into the connectors labelled LEFT and RIGHT on the amplifier.

Speaker Wiring Guide for Additional Speakers

This section provides important information concerning connecting speakers to the amplifier. Before continuing with speaker connections, it is strongly recommended that you read this section thoroughly.

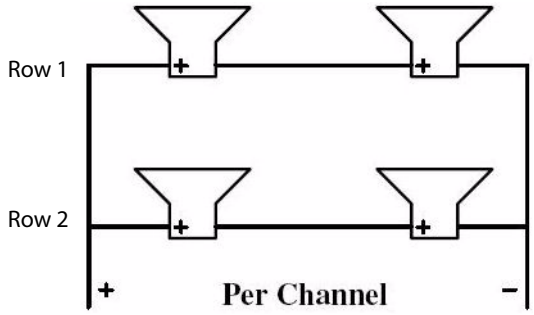
Note: The following examples are applicable to the 4-channel amplifier only.

CAUTION: The amplifier has been specifically designed for use with 4-ohm speakers. Using speakers of a lower impedance may cause severe damage to the amplifier.
Furthermore, if 8-ohm speakers are to be used, they must be wired in parallel in order to provide a 4-ohm load to the amplifier.

CAUTION: Bose model 141 speakers will not function with either the 3-channel or 4-channel amplifier. Do not attempt connection of these speakers.
Similarly, wiring two pairs of **Bose model 301** speakers **in parallel** will result in unsatisfactory performance and may cause damage to your equipment.

Example 1: TouchTunes 2-Way Speakers

This example illustrates wiring of TouchTunes 2-way speakers (maximum 4 per channel) for a total impedance load of 4 ohms.

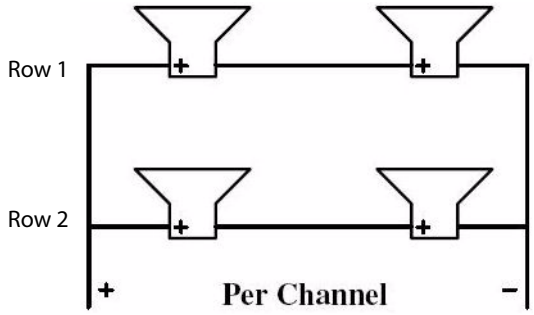


TouchTunes 2-Way Speakers Wiring

Row (series) impedance specifications	
Row 1	2 speakers in series: 4.0 ohms + 4.0 ohms for a total of 8 ohms per row.
Row 2	2 speakers in series: 4.0 ohms + 4.0 ohms for a total of 8 ohms per row.
Total impedance specifications	
Connecting Rows 1 and 2 in Parallel	4.0 ohms total for this combination. Power over 4 ohms = 150W/channel.

Example 2: Bose 301 Speakers

This example illustrates wiring of Bose 301 speakers (maximum 4 per channel) for a total impedance load of 6 ohms.



Bose 301 Speakers Wiring

Row (series) impedance specifications	
Row 1	2 speakers in series: 6.0 ohms + 6.0 ohms for a total of 12 ohms per row.
Row 2	2 speakers in series: 6.0 ohms + 6.0 ohms for a total of 12 ohms per row.
Total impedance specifications	
Connecting Rows 1 and 2 in Parallel	6.0 ohms total for this combination. Power over 6 ohms = 100W/channel.

Connecting Audio Zones 2 and 3

Note: With its inputs and outputs for 2 independent zones, the 4-channel amplifier is significantly different from the 3-channel version, and involves a different method for speaker connection. Please pay careful attention to the following connection instructions.

Please refer to the figure on page 35 while performing the installation.

1. Ensure that the power supply cord is disconnected from the power connector on the amplifier.
2. Ensure that a standard category 5 cable with RJ45 connectors is connected from the Zone 2 output on the JCB to the Zone A input connector on the amplifier.

CAUTION: Incorrect speaker installation or speaker wiring configuration can cause severe damage to the amplifier. If you have not already done so, please refer to "Speaker Wiring Guide for Additional Speakers" on page 39 before proceeding.

3. Connect left and right speakers to the amplifier by pressing their euroblock connectors firmly into the left and right channel audio output connectors for Zone A on the amplifier.
4. Ensure that a standard category 5 cable with RJ45 connectors is connected from the Zone 3 output on the JCB to the Zone B input connector on the amplifier.

5. Connect left and right speakers to the amplifier by pressing their euroblock connectors firmly into the left and right channel audio output connectors for Zone B on the amplifier.
6. Power up the unit by connecting the power cord between the Allegro MX-1's internal power supply and the power connector on the amplifier.
   The amplifier will automatically start when the power cord is plugged into a wall outlet (AC 120V /60Hz MAX 1000W). There is no power switch.

CAUTION: Do not connect the AC power cord to a wall outlet until all audio connections have been completed.

If the power/standby light is illuminated green, the amplifier is operating normally. Red indicates that the amp is in standby mode or that an abnormal condition has been encountered and that protection mode has been activated.

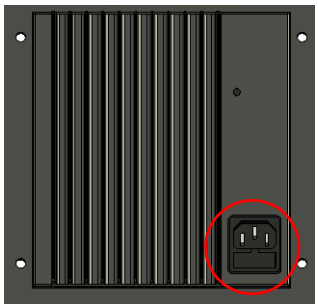
Connecting Power to the Allegro MX-1

In this section, connect the Allegro MX-1 to the main AC power, close the jukebox and then turn it on in order to activate it.
Components within the Allegro MX-1 (such as the JCB and internal amplifier) are connected to a main power supply inside the case. You connect the power cord for this power supply to an external AC power source to provide power to jukebox components.
To connect the power cord to the jukebox:

1. If necessary, locate the power cord for the jukebox.
   The power cord for the Allegro MX-1 is designed for a three-prong power outlet that is properly grounded and polarized.

CAUTION: Do not modify the supplied power cord to fit in ungrounded or unpolarized power outlets. If the power cord cannot plug into the intended AC power outlet, either find another outlet or contact an electrician to replace the existing outlet with one that is grounded and polarized.

2. Connect the female plug of the power cord to the power inlet on the rear of the cabinet.

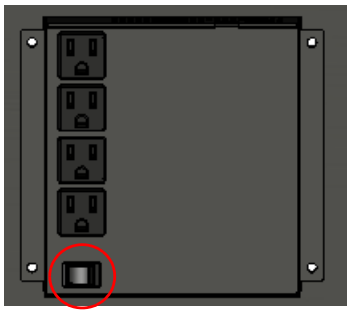


AC power inlet on power supply

3. Connect the male plug of the power cord to a properly grounded and polarized three-prong power outlet.

4. Set the power rocker switch on the Allegro MX-1's power supply to ON.

Note: This switch only controls switching of the Allegro MX-1's computer—not the other outlets of the power supply.



Power supply main switch

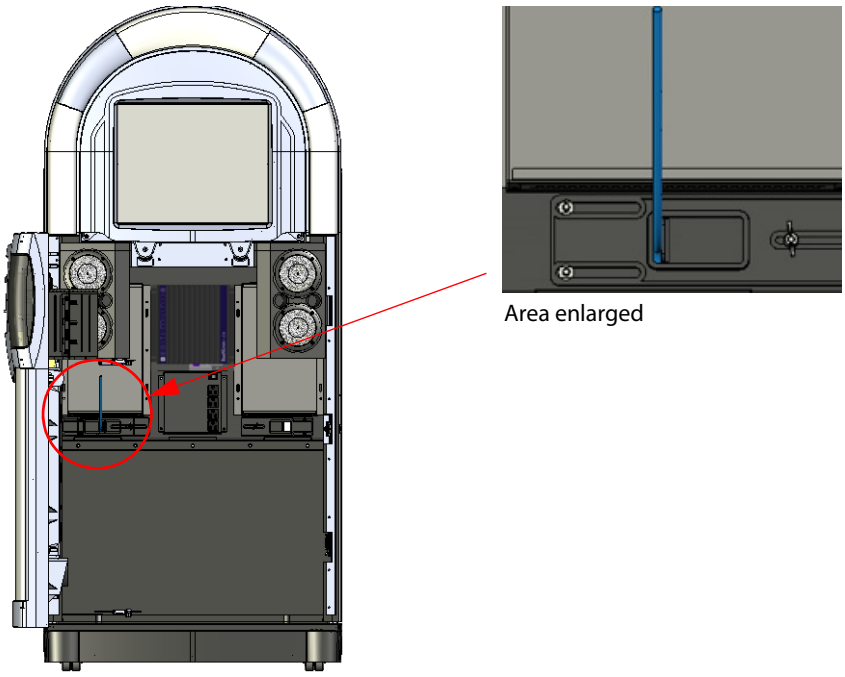
The jukebox's computer powers up, checks the jukebox hardware components and then begins loading its system software.

Tightening the Wire Strain-relief Sliders

All cables are now connected to the Allegro MX-1. You tighten the wire strain-relief sliders in the cable access ports of the service tray to secure these cables before closing the Allegro MX-1.

To tighten the wire-strain relief sliders:

1. (Optional) Pull in and hold a short length (1 - 2 inches) of each cable running through the cable access ports to ensure all cables in the jukebox have some slack.
2. Loosen the wing nuts on the cable access port sliders so you can adjust them.
3. Adjust the wire-strain relief sliders until both of the following conditions are met:
   - The slider presses against and is holding all of the cables coming into the jukebox through the cable access port to maintain slack for each cable.
   - The slider partially closes the cable channel opening to the jukebox to prevent dust from entering the Allegro MX-1.



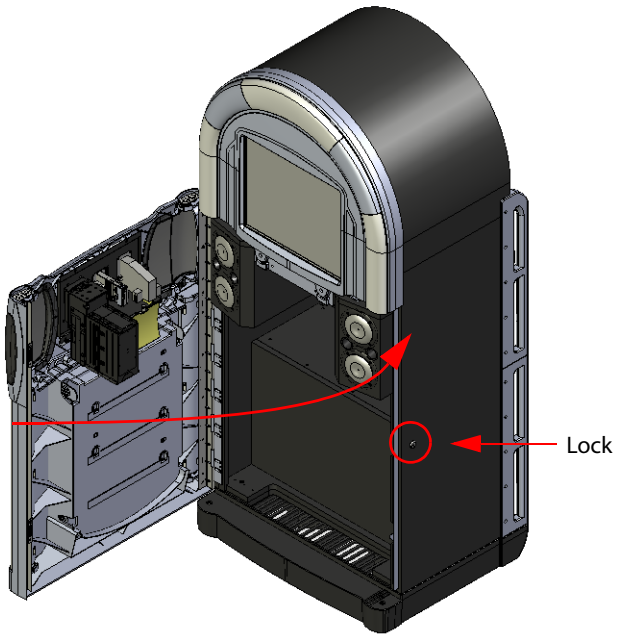
Adjusting the wire strain-relief slider to close the cable channel

Closing the Allegro MX-1 Case

Once you have turned on the Allegro MX-1, close and lock its case.

To close the jukebox:

1. Close the Allegro MX-1 case by lifting the door upward slightly, gently swinging it shut and then pressing on its front face to engage the locking mechanism.



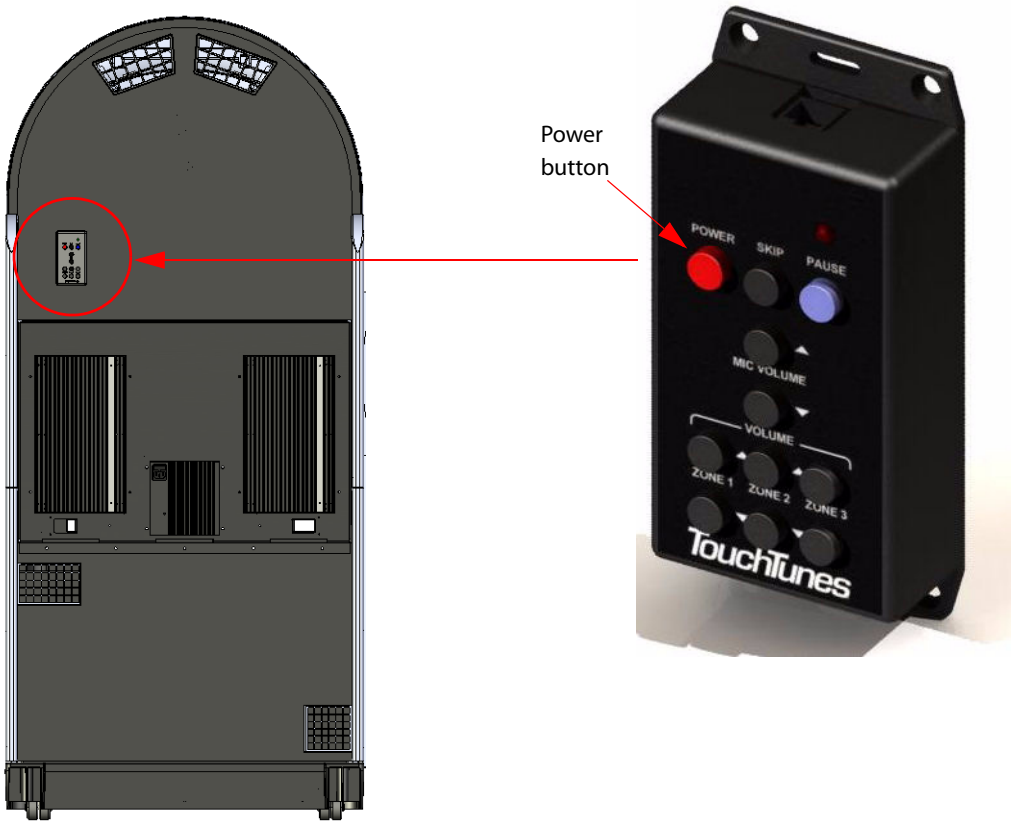
Closing the Allegro MX-1

2. Secure the Allegro MX-1 by using the key to lock its case.

Activating the Allegro MX-1 Screen

When you power up a jukebox for the first time, it automatically goes into *night mode*: the JCB and other internal components of the jukebox are running, but the touchscreen, audio system and lights for the jukebox are disabled. Bring the jukebox out of night mode and activate its screen before setting up the jukebox.

1. Press the **POWER** button on the wired remote for the jukebox.



Locating the POWER button

Note: Buttons may be slightly recessed.

When you press this button, the touchscreen, lights and audio system for the jukebox are activated. You can now use the touchscreen to activate the jukebox and configure its settings using the system software.

2. Follow the procedure in "*Activating the Jukebox*" to configure and initiate communications with the TouchTunes server and activate the jukebox.

5 Activating the Jukebox

This section describes how to activate your TouchTunes Allegro MX-1 jukebox

after you have completed the hardware installation.

Activation Procedure

In general, activation of your jukebox involves the steps listed in this section. Step-by-step procedures are elaborated on in the rest of the document.

1. Power on the jukebox.
2. Proceed through the installation screens:

Power on the Jukebox

WARNING: During the following procedures, there may be periods during which the jukebox appears not to be responding.
Booting the system with the new Gen 3 hard drive may take up to ten (10) minutes, and the screen may be blank for up to 90 seconds during the installation procedure. **It is extremely important that you do not power down or attempt to reboot the jukebox during this procedure, or you will risk corrupting and rendering the hard drive unusable.**

1. Power on the JCB, as described in "Connecting Power to the Allegro MX-1" on page 41.
2. Power on the jukebox, as described in "Activating the Allegro MX-1 Screen" on page 44.

The Jukebox Software initialization screen appears indicating that the jukebox is starting the installation process.

Jukebox Software Initialization Screen

Configure the Jukebox

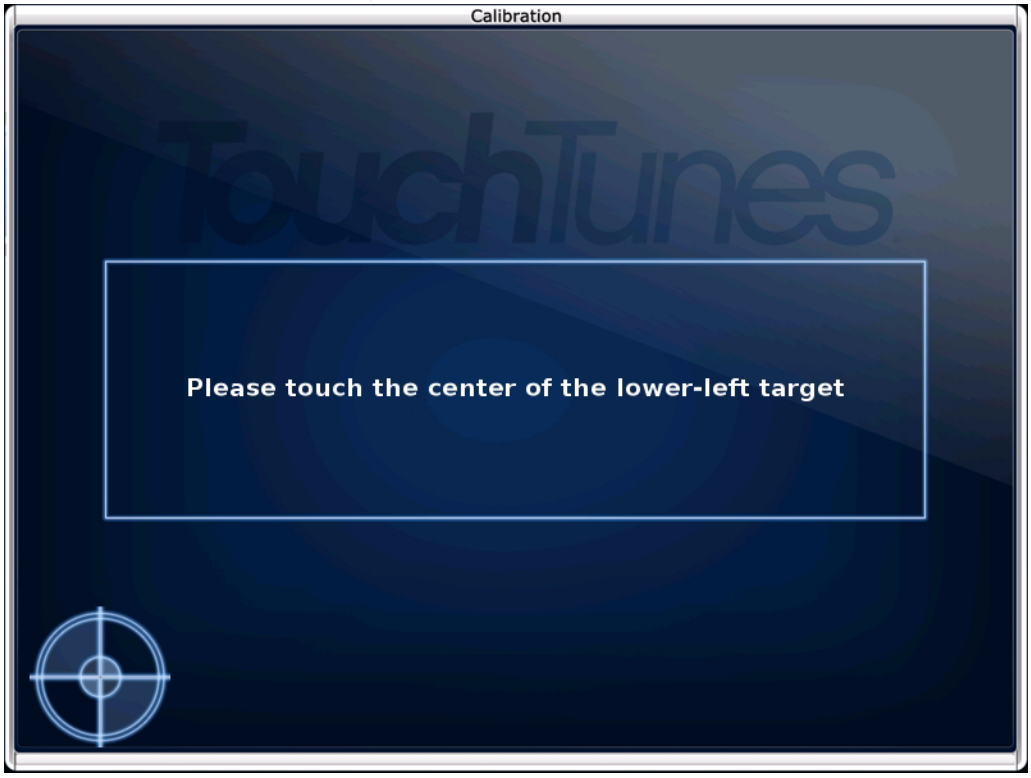
After the jukebox has initialized, the Calibration screen appears.

Note: If there is a corruption in the jukebox's ID chip or other serious error, the Calibration screen will not appear but rather an error will be indicated. See "Encountering a Serious System Error" on page 16.

Calibrate the Touchscreen as Required

1. Touch the center of the target that appears on the upper-left of the screen.
2. Touch the center of the target that appears on the lower-right of the screen.

3. Touch the center of the target that appears on the lower-left of the screen.



Calibration Screen

The Settings screen appears.

Select Settings to Use

In the Settings screen, you select where to get the jukebox settings from. Settings include mixer levels, credit rules, the remote ID, and the other configurable options available from the Operator interface or via the TouchTunes Dashboard.

Languages

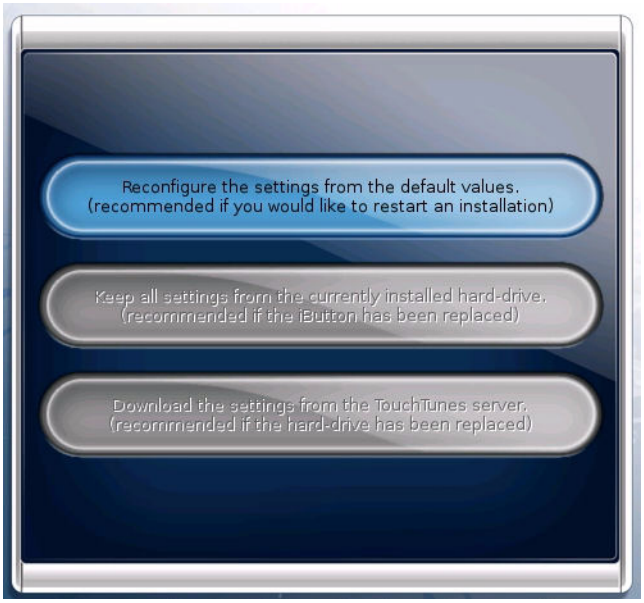
The Languages screen enables you to select a primary (default) language and an optional second language for the customer interface.

Languages Screen

- Make your language selection(s), and then press **Apply** to continue.

Settings

1. Touch one of the following:



Settings Screen

Note: For new Gen 3 jukeboxes, the only available option is the first one—the second and third options are provided for cases where the hard drive has been replaced, such as when migrating

from previous-generation to Gen 3 software. When an option is not available, it is grayed out and cannot be selected.

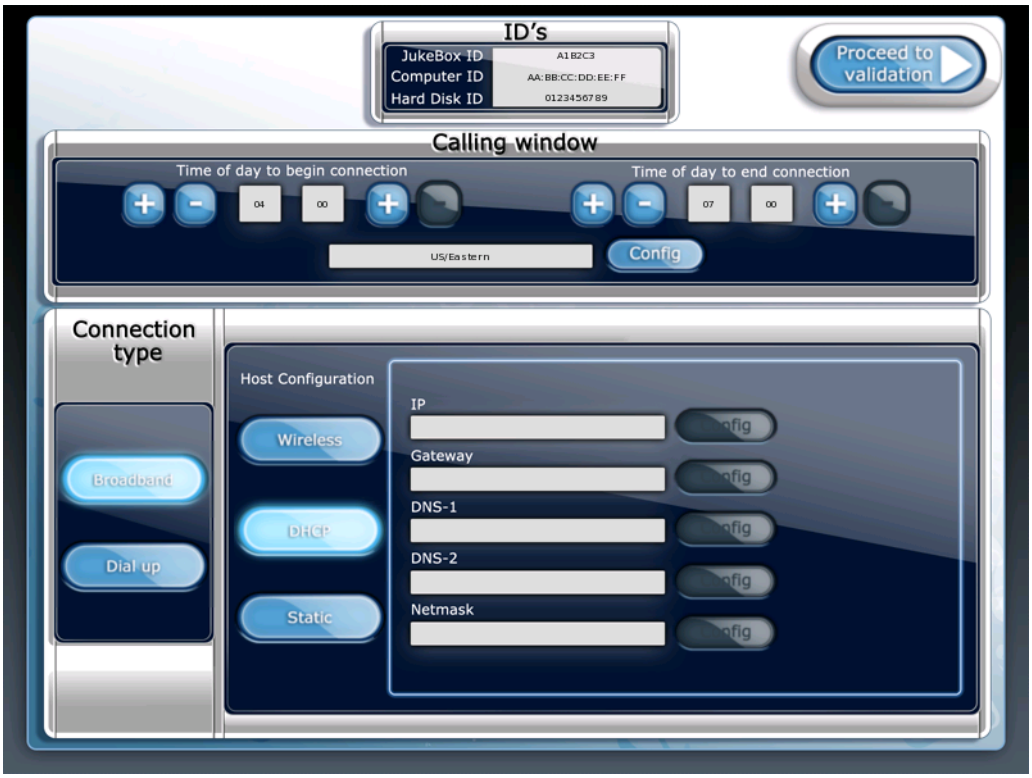
- **Reconfigure the settings from the default values:** Touch to reset all setting values to the factory defaults. When installing the Jukebox Software on a jukebox with a new ID chip and hard-drive, this is the only option available.
- **Keep all settings from the currently installed hard-drive:** Touch to preserve the settings from the hard-drive. For example, use this option if you replaced the ID chip, or if you are swapping in a hard-drive onto which software has been previously installed. In both these cases the jukebox detects a hardware change, and can retrieve the settings from the hard-drive. This option is not available if you have installed a new hard-drive into the jukebox.
- **Download the settings from the TouchTunes server:** Touch to retrieve the settings from the TouchTunes server. For example, use this option on a jukebox where the software has been previously installed, where the ID chip stays in place, but a new hard-drive is swapped in. In this case the jukebox retrieves the settings for the jukebox corresponding to the identification number in the ID chip This option is not available if a new ID chip has been installed on the jukebox.

OPTIONAL: Go Back to the Settings Screen

2. If you chose the Keep all settings from the currently installed hard-drive or Download the settings from the TouchTunes server options in the Settings screen, the **BACK** button is available in the Communication screen that appears. You can touch the **BACK** button to return to the Settings screen. You might do this, for example, if you decide to reset the settings to factory defaults instead of keeping the hard-drive settings.

Choose the Calling Window and Connection Type

Once you have selected your settings, the **Calling Window and Connection Type** screen displays, enabling you to select the times and type of connection the jukebox will use to communicate with the TouchTunes server.

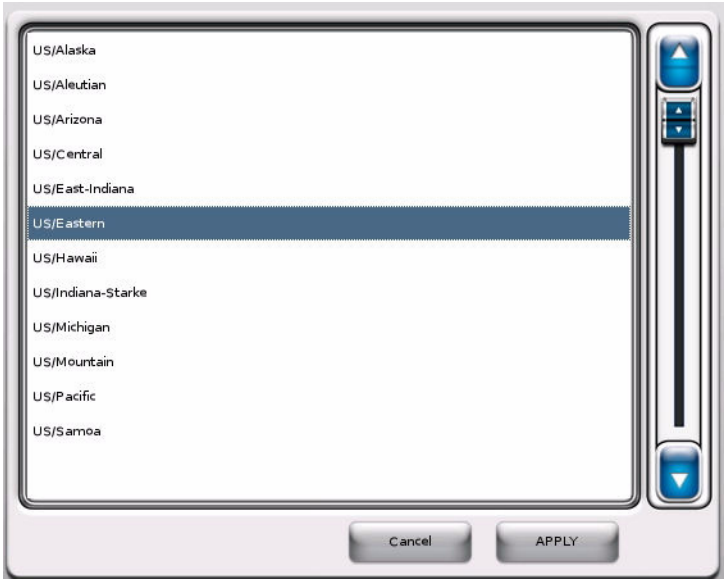


Calling Window and Connection Type

The **Calling window** controls allow you to specify the nightly time range during which the jukebox will communicate with the TouchTunes server. Use the corresponding plus (+) and minus (-) buttons to specify the starting and ending times for communication.

- **Time of day to begin connection:** Set this to one half hour after the location is locked up for the night (i.e., the time the last person leaves and locks the front door). The half hour gives you a buffer in case things are running late one night.
- **Time of day to end connection**: Set this to one half hour before the earliest person arrives and enters the location.

- **Config:** Use this button to display a scrolled window (as shown below) from which you can select the location's time zone. Use the scrolling controls to move up and down through the list, touch a time zone to select it, and then press **APPLY**.



Time Zone Selection

The **Connection type** controls allow you to choose the type of network connection for the jukebox. Depending on your selection, different settings will display in the lower area of the screen, allowing you to specify connection parameters.

To choose a dynamic (DHCP) broadband connection:

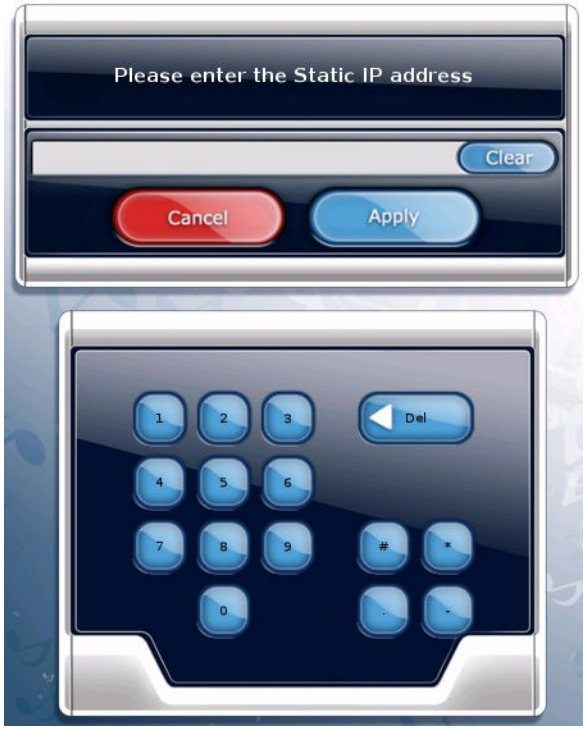
1. Select **DHCP** to obtain an IP address automatically from the ISP or the location's router.
2. Touch **Proceed to Validation** at the upper right-hand area of the screen to proceed to the Communications screen.

Proceed to validation

To choose a static broadband connection:

1. Select **Static** to assign a static IP address, and then enter all configuration parameters as supplied by the ISP.
   The screen refreshes, with all **Config** buttons enabled to allow you to enter the required information.
2. Select the **Config** button associated with the **IP** field.

A window with a numeric keypad displays.



Static IP Address Configuration Window

3. Using the keypad, type in the static IP address supplied by the ISP.

   Note: The pound (**#**), asterisk (*****), and minus (**-**) keys are used for entering dial-up information only, and are not used when entering data for a broadband connection.

   • Use the period (**.**) key to delimit the individual fields of the IP address.

   • If you make a mistake, use the **Del** key to erase the input, and then re-enter the correct information.

   • Use the **Clear** key to erase the entire contents of the IP address field.

   • Use the **Cancel** key to cancel the operation and return to the Calling Window and Connection Type screen.

4. When you have finished entering the IP address, press **Apply**.
5. Enter the **Gateway**, **DNS-1**, **DNS-2**, and **Netmask** information supplied by the ISP by using the associated Config buttons and numeric keypad windows.
6. When you have entered information in all the required fields, touch **Proceed to validation** at the upper right-hand area of the Calling Window and Connection Type screen to proceed to the Communications screen.

Proceed to validation

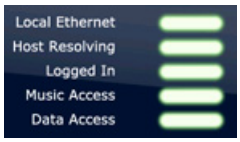
Monitor the Communication Screen

1. Monitor the Communication screen that appears:

Communication Screen

The Communication screen indicates the progress of the jukebox as it attempts to communicate with the TouchTunes server. Network status LED indicators display the success or failure of each communication step, with corresponding information appearing in the Activity messages.

2. Monitor the Network status LED indicators:



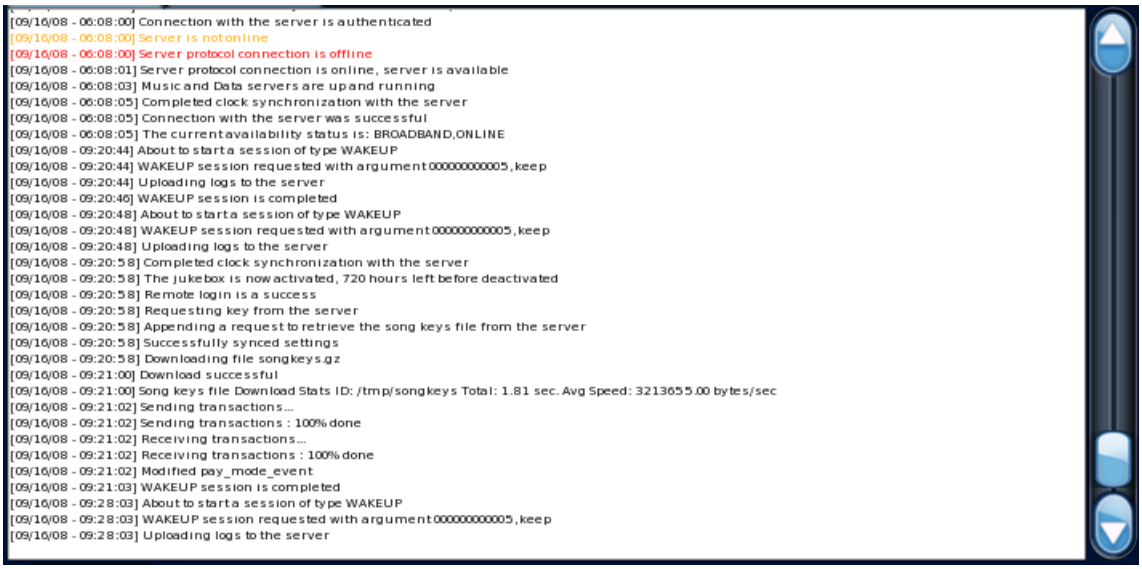
Network Status LED Indicators

- **Local Ethernet:** Indicates whether an ethernet cable is properly connected to the jukebox, and the jukebox is receiving a signal from it.
- **Host Resolving:** Indicates whether the jukebox is connected to the internet.
- **Logged In:** Indicates whether the jukebox is logged into the TouchTunes server. The jukebox must be able to log into the TouchTunes server to receive activation information and perform transactions, such as returning daily sales information.
- **Music Access:** Indicates whether the jukebox can access music from the TouchTunes server. The jukebox must have music access to download new songs.

- **Data Access:** Indicates whether the jukebox can communicate with TouchTunes server to receive updates from the TouchTunes Dashboard. The jukebox must have data access to receive any new settings you may have made to it via the TouchTunes Dashboard.

For installation and activation, the jukebox needs the Logged In, Music Access and Data Access LED indicators to be green. There may be cases where one of the access types is offline. After activation, the jukebox will still function if one of these is offline, but there may be some temporary reduced functionality. For example, if there is maintenance being performed to the TouchTunes Dashboard on the TouchTunes server, data access may be offline. In this case, the jukebox will still be able to receive new music, but any settings you make for it via the TouchTunes Dashboard will not be registered on the jukebox until data access is restored.

3. Verify the information in the Activity messages:



Activity Status Screen

If necessary, do one of the following:

- To scroll the Activity Status window, drag the scroll bar up or down.
- To scroll up in the Activity Status window, touch the button.
- To scroll down in the Activity Status window, touch the button.

When the jukebox is fully initialized, the Attract Screen of the Customer Interface displays.

Error Scenarios

During installation, errors could occur if there has been damage to the jukebox hardware, or corruptions in its software. Under normal circumstances, these should be rare.

The following are a couple of the error scenarios which could occur.

Encountering a Corruption in the ID Chip or Hard-Drive

A corruption in the ID chip or hard-drive could result in the jukebox being unable to play songs on the hard-drive. In this case, the jukebox must download some information from the TouchTunes server to fix the problem. When the jukebox is started, the Communication screen

appears indicating it is downloading the required file, and then boots into the Customer interface.

Encountering a Serious System Error

Under serious conditions—whether major system problems with hardware or software—an error screen appears upon jukebox initialization indicating that you should contact TouchTunes, as no other action can be taken. See “Contacting TouchTunes” on page 4.

6 Post-installation

This section describes how to set up and test your TouchTunes Allegro MX-1 jukebox after you have completed the hardware installation and software activation.

Activating the Operator Interface

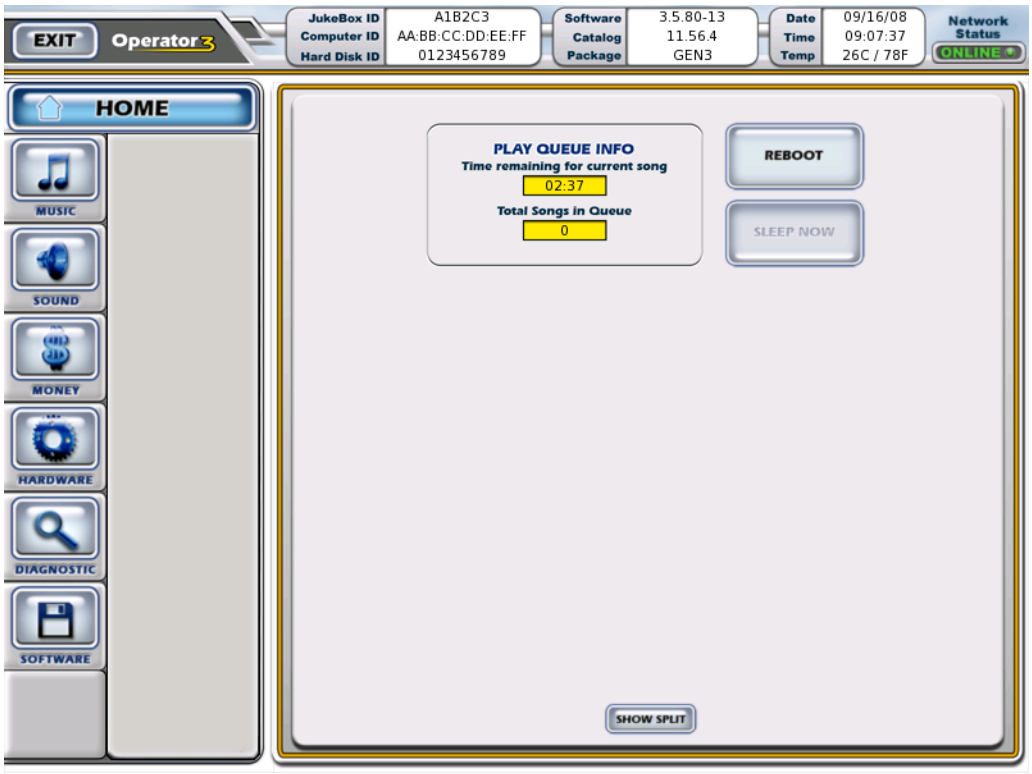
The Operator interface is composed of all the screens that you reach via the Operator menu. To activate the Operator Interface:

1. Locate the Setup button on the front panel of the JCB.
   The Setup button is located at the bottom of the set of controls and indicators on the left-hand side of the JCB.

Locating the Setup button

2. Press and release the Setup button.

The jukebox displays the Operator main menu.

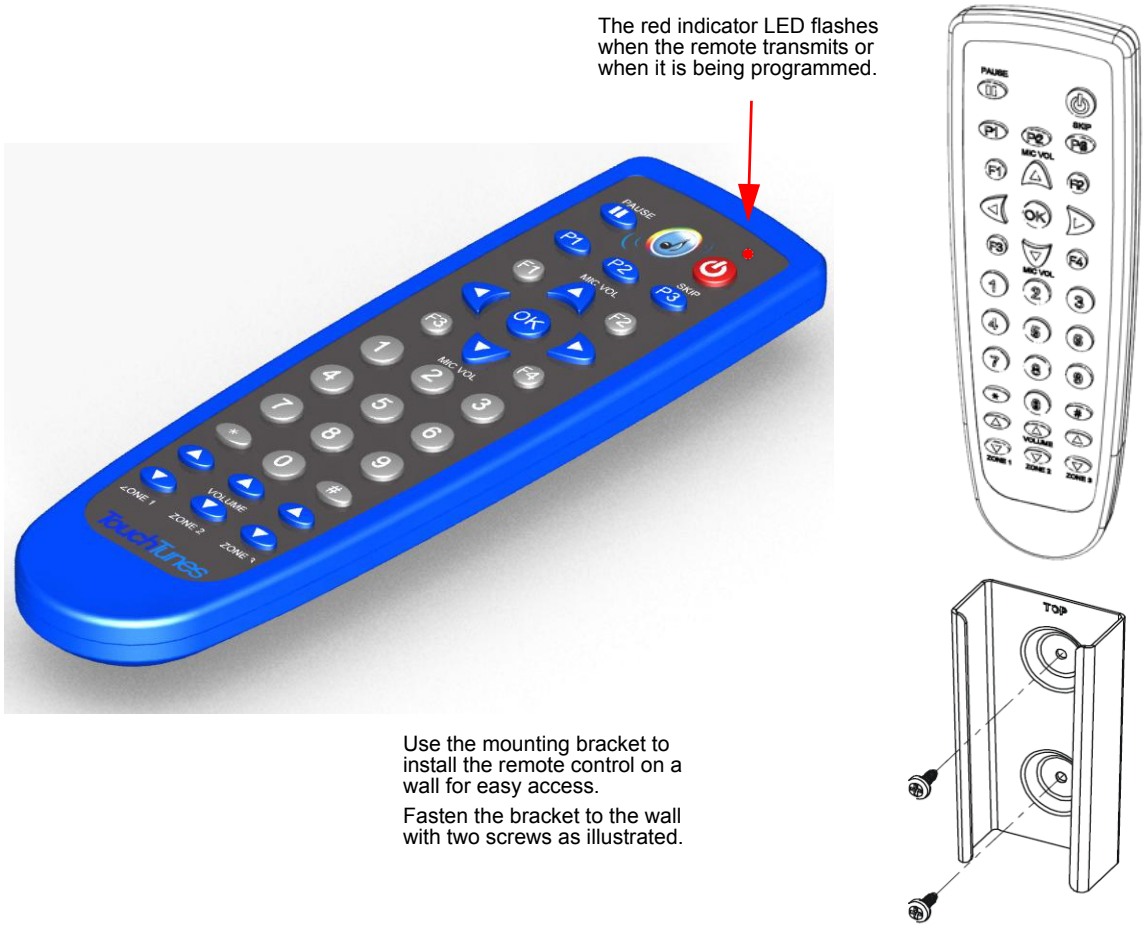


Operator Main Menu

The Operator main menu is the root menu from which you can access all the other screens of the operator interface.

Setting Up the Remote Control

TouchTunes' new wireless remote control is a single-frequency remote that transmits a 433.92 MHz (FSK) signal for jukeboxes with the new receiver/demodulator.



Single-Frequency Wireless Remote

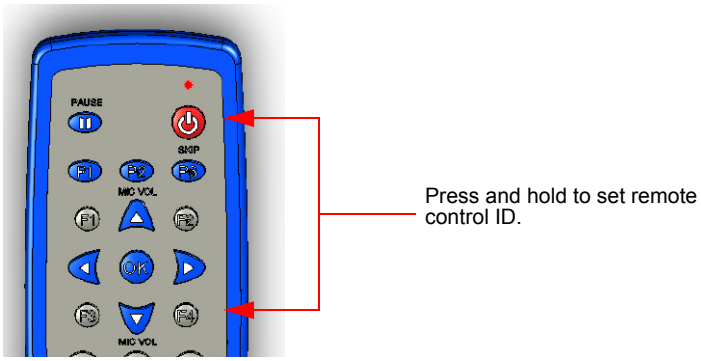
The remote control is RF-based. This eliminates the need to point it directly at the jukebox when using it. It has a range of up to 200 feet depending on the type of the obstructions between it and the jukebox. Concrete and metal provide more of a barrier than wood or plaster. The remote control can also be affected by interference from other RF-based devices.

The remote control is powered by two 1.5V AAA batteries. Insert the batteries in the compartment on the rear of the remote. Use only high-quality alkaline batteries.

Setting the Remote Control ID

By default, the remote control ID is set to 000. To change it, do the following:

1. Press the ***POWER*** and ***F4*** keys at the same time and hold them down until the red indicator light blinks two times.

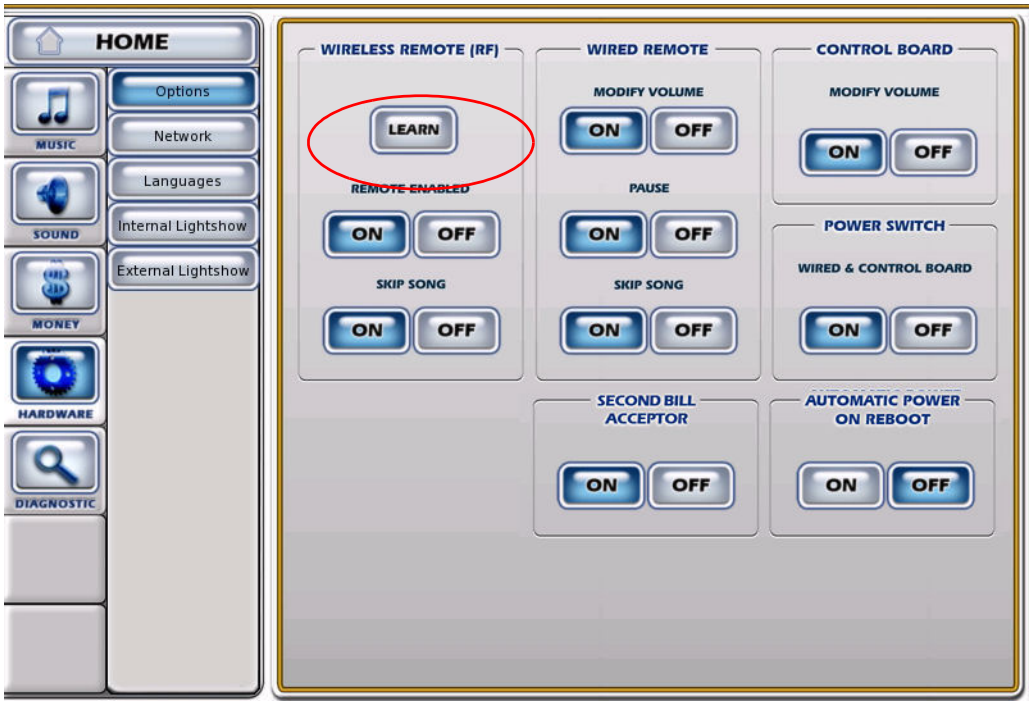


Setting Remote ID

2. Enter the new three-digit code to use. The new code must be in the range ***000*** to ***255***.
3. The red indicator light will light up for three seconds to confirm your selection. If you enter an invalid code the light will blink five times.
4. You must now have the jukebox re-learn the remote ID.

Learning the Remote ID

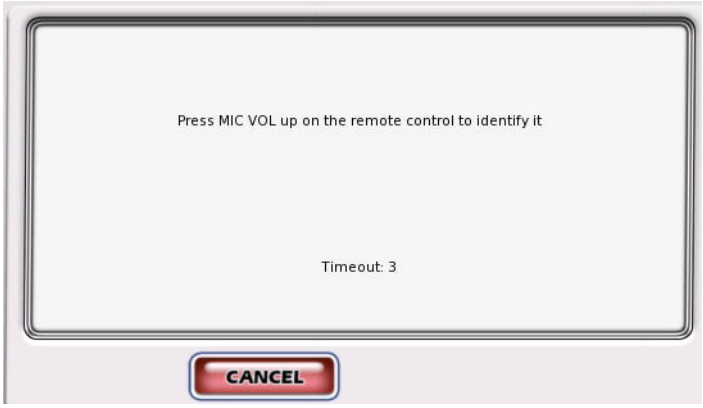
1. On the Operator Interface, open the Hardware Options screen.



Learning Remote ID

2. Press the **LEARN** button.

3. Watch the display. When prompted, press the **MIC VOL UP** key on the remote control.



On-screen Instructions

The display will show a success message and return to the Options screen.

4. Test the remote by raising and lowering the jukebox volume as it is playing.

Key Assignments and Functionality

The keys on the remote are pre-programmed for the following functions.

Key	Function
Power	Press to turn the jukebox monitor and audio subsystem on or off. The jukebox computer remains on. Equivalent to pressing the Night Mode button on the jukebox (not available on all models).
Pause PAUSE	Pauses the jukebox.
Numeric keys 0 - 9	Used to program the remote and for future use.
MIC VOL MIC VOL MIC VOL	Raises and lowers the volume of the microphone within the limits set on the Mixer Settings screen.
P1 P1	Give promotional credit: Press and release this button to add a credit to the jukebox. Credits are deducted from the promotional credit count. The promotional credit feature is enabled/disabled on the Credit Settings screen.
P2 P2	For future use.
P3/Skip SKIP P3	Skip song: Quickly press and release this button to stop playing the current song and immediately skip forward to the next song in the queue. The skip song feature is enabled/disabled on the System Settings screen. Flush play queue: Press and hold this button for four seconds to flush the entire play queue.
VOLUME ZONE 1, 2, 3 ZONE 1 ZONE 2 ZONE 3	Raises and lowers the volume of the selected zone within the limits set on the Sound Mixer screen.

Key	Function
F1, F2, F3, F4	For future use.
Left-arrow, right-arrow, OK	For future use.

PlayPorTT Key Assignment

The new remote is pre-programmed to release PlayPorTT handheld game consoles from their docking stations using a special sequence of key strokes.

To release a PlayPorTT from its dock:

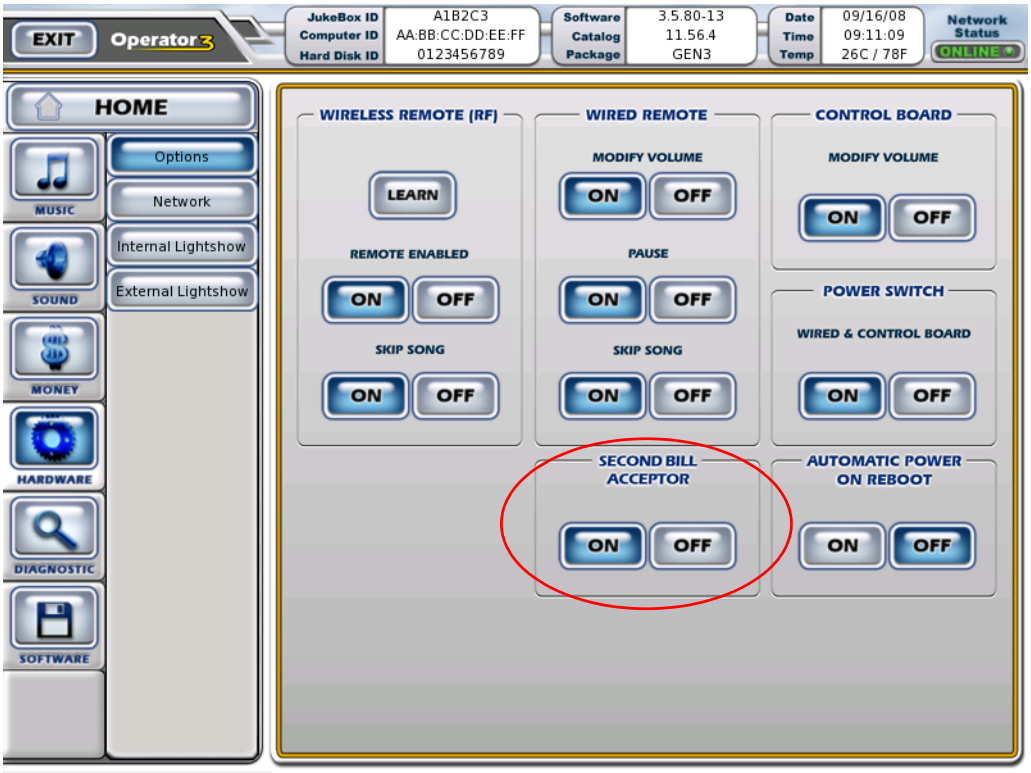
1. On the remote, press the asterisk (*) key and then enter the number **100**.
   A window prompting you for the Unit ID of the PlayPorTT displays on the jukebox's screen.

Note: The PlayPorTT ID must always be entered as a two-digit number, for example, for unit 2, you must enter "02".

2. Enter the unit ID of the unit to be released using the numeric keypad, and then press the pound (#) key.
   The locking mechanism on the dock of the selected PlayPorTT disengages, allowing you to remove the unit.

Configuring the Bill Acceptor(s)

1. On the Operator Interface, open the Hardware Options screen.



Hardware Options screen

From this menu, you can configure the jukebox to use two bill acceptors or one. By default, this option is turned **ON**.

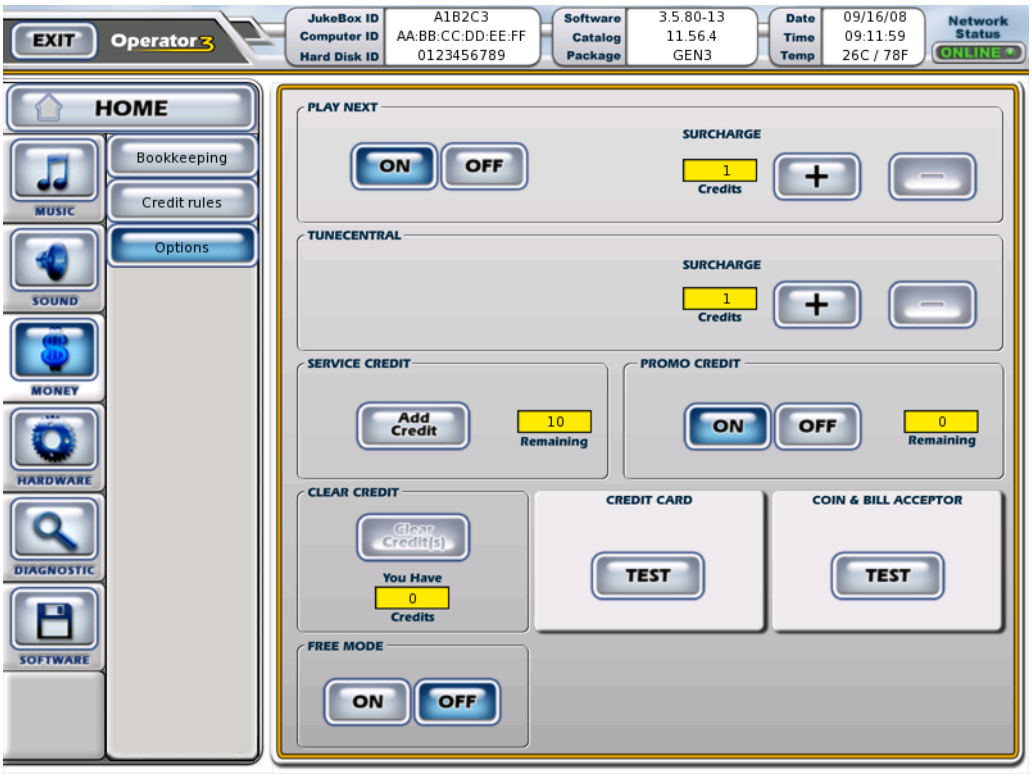
- If your Allegro MX-1 has a single bill acceptor, you must turn this option **OFF**.
- If your Allegro MX-1 has dual bill acceptors, you must ensure that this option is turned **ON**.

Testing the Payment Acceptors

You verify that the bill acceptor, coin acceptor, and credit card reader are functioning properly using testing controls on the Money | Options screen of the Operator Interface.
To display the Money | Options screen:

1. Activate the Operator Interface, as described in “Activating the Operator Interface” on page 57.
2. Select the Money menu, and then press the **Options** button.

The Money | Options screen displays.

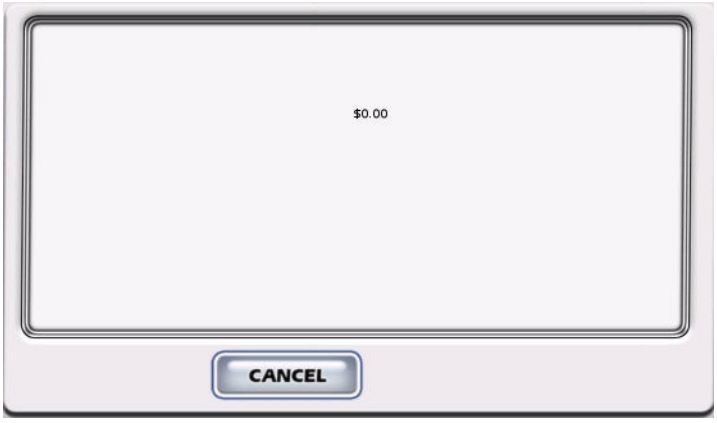


Money | Options screen

Testing the Bill and Coin Acceptors

To test the bill acceptor:

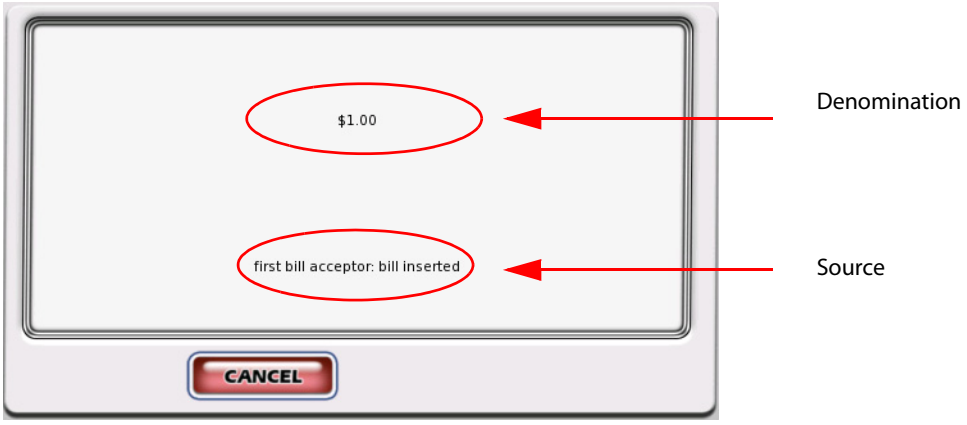
1. In the **COIN & BILL ACCEPTOR** area, press the **TEST** button.
   The test screen appears.



Bill and Coin Acceptor Test Screen

2. Insert a bill into the bill acceptor.

The screen refreshes, indicating the denomination of the bill that was inserted, as well as the origin of the bill (first or second bill acceptor).



Acceptor Status Message

By default, the bill acceptor is configured as follows:

- Accepts $1, $5, $10, and $20 bills only.
- Four-way bill direction.
- High security bill acceptance.
- Long pulse (do not change this setting).

To change the settings follow the directions on the side of the bill magazine.

3. Make sure that the bill is properly stacked. Instructions for removing the bill are located on the rear of the bill acceptor magazine.

For the Canadian model only:

4. Repeat step 1, and insert a coin into the coin acceptor.

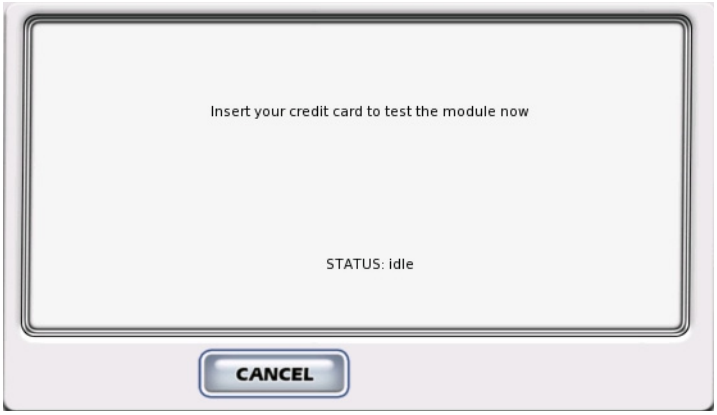
The screen refreshes, indicating the value of the coin that was inserted.

Testing the Credit Card Reader

To test the credit card reader:

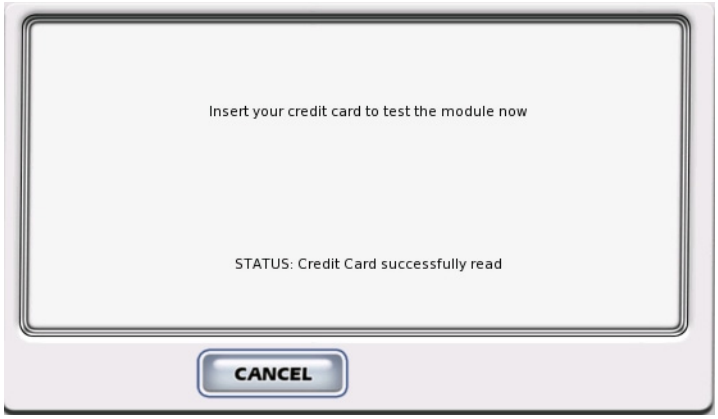
1. In the Credit Card area, press **TEST**.

   The Test screen displays.



Credit Card Test Screen

2. Insert a credit card into the card reader with the magnetic strip up and to the right, and then remove your card.
   If your installation is successful, a message displays, as illustrated in the figure below.



Credit Card Reader Success Message

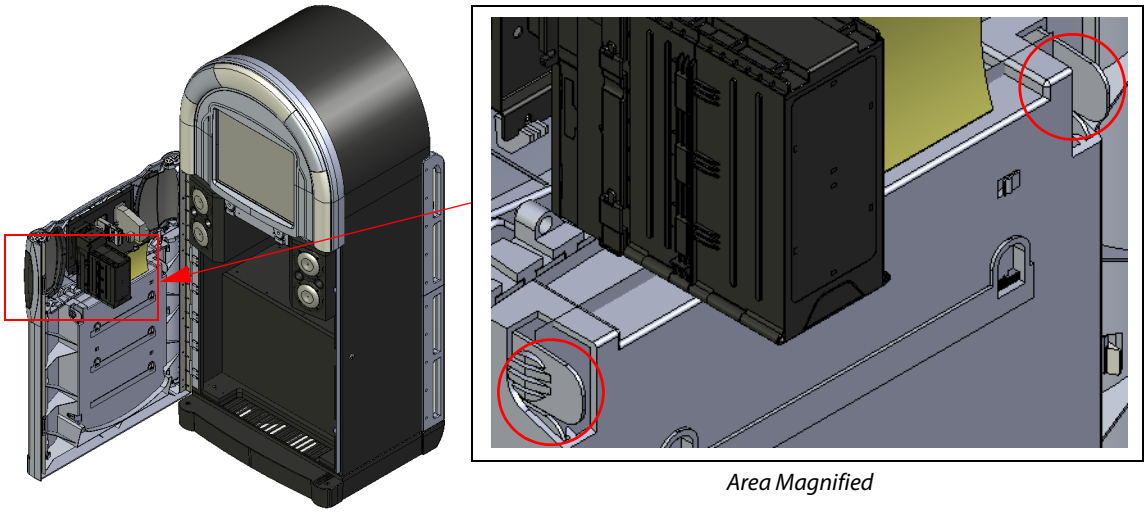
Changing the Front Panel Poster

Allegro MX-1's front panel poster is housed in an easily accessible poster bay with a clear polycarbonate bay window. Changing the Allegro MX-1's poster does not require the use of any tools.

To change the front panel poster:

1. Unlock and open the jukebox, as described in "Opening the Main Enclosure" on page 11.
2. Locate the locking tabs of the poster bay.

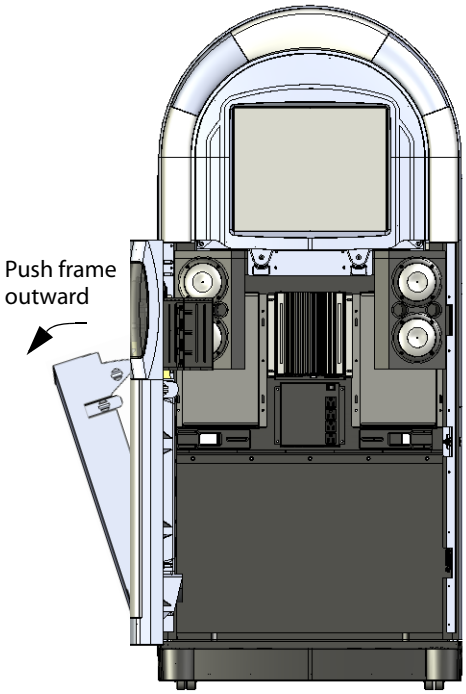
   The locking tabs are flexible, and secure the poster bay window to the door of the enclosure.



Area Magnified

Locating the poster bay window locking tabs

3. Push inward on the two tabs simultaneously to disengage them from their locking slots.



Disengaging the poster bay

4. Push the poster frame outward.
   You now have access to the poster.
5. Replace the poster in the poster bay window, ensuring that it is fully inserted (i.e., the poster reaches the bottom of the poster bay window).

Note: If the poster is installed properly, there should be no need to cut it to size.

---

6. Reinstall the poster bay by pushing it inward until the tabs lock in place.

Adjusting Monitor Brightness/Contrast

To optimize the vertical field of view for the Allegro MX-1 touch screen, TouchTunes recommends performing the quick and easy adjustments described herein during setup and installation of the jukebox.
As a general guideline, the following values are suggested:

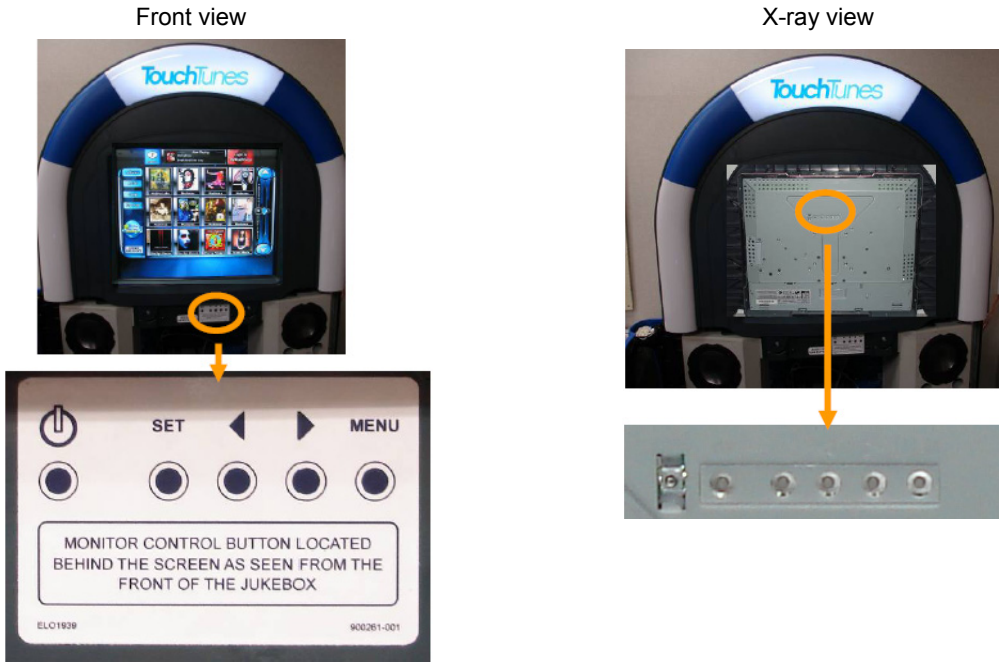
• **Contrast:** 25.

• **Brightness:** 100.

However, other factors such as a location's ambient lighting can affect the display's contrast ratio, view angle, and readability. The values provided here are just a representation, and not necessary optimum for every location. As such, TouchTunes suggests that the Operator use these values as a starting point and adjust them until the desired contrast level is achieved.
To adjust the contrast and brightness for the display of your Allegro MX-1, refer to the photos on the following page and perform this simple procedure:
To adjust contrast:

1. Unlock and open the jukebox door.
2. Access the LCD control buttons behind the screen to activate the on-screen display (OSD).

Note: You must reach in behind the monitor to access the controls. Refer to the legend provided on the self-adhesive label affixed to the cabinet below the monitor bezel to guide you when performing monitor adjustments.



Accessing the Monitor Controls

3. Press the **MENU** button once.
4. Press the **left-arrow** button until the desired contrast level is reached.
5. Press the **SET** button.
6. Press the **MENU** button to exit the OSD.

Ensure that the brightness of your display is set to 100.

To adjust brightness:

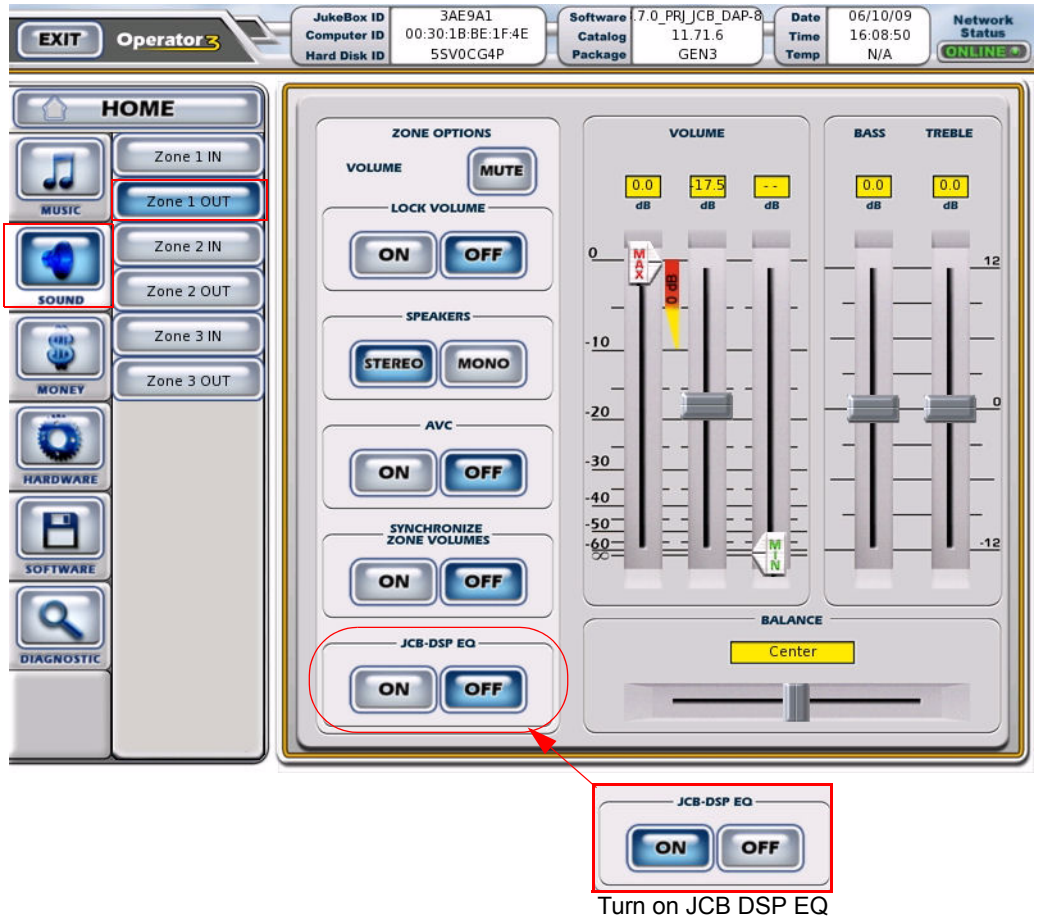
7. Press the **MENU** button once.
8. Press the **right-arrow** button once.
9. Press the **SET** button.
10. Press the **right-arrow** button until the desired brightness level is reached.
11. Press the **SET** button.
12. Press the **MENU** button to exit the OSD.

Enabling DSP Equalization

TouchTunes' newest JCB jukebox computer boasts DSP technology for improved audio quality, equalization, and noise reduction. The DSP EQ feature—individually controllable for all 3 audio zones—is, by default , turned off in the jukebox software and must be turned on via the Operator interface.

To enable DSP EQ:

1. From the main Operator interface, select the **Sound** menu, and then select **Zone 1 Out**.



Turning on DSP EQ

2. In the **JCB DSP EQ** area, select **ON**.

You can repeat this procedure to turn on DSP EQ for all connected audio zones.

Note: The JCB DSP EQ feature is only available on jukeboxes equipped with the DSP version of the JCB computer. For all other platforms, this feature will be visible on the Operator interface, but the ON/OFF controls will not be selectable (i.e., the buttons will be "grayed out").

Connecting an External Audio Source

The Allegro MX-1 can accept input from an external audio device as long as this device has a line level stereo output (from 300mV to 1 V RMS). Most audio devices, such as tape decks, receivers, CD players, or radios have such an output.

CAUTION: The maximum input signal to the jukebox must be 1 volt RMS. This is the standard followed by most audio devices. However, connecting variable audio outputs, like the speaker outputs of an amplifier for example, can damage the jukebox.

The jukebox will automatically switch to the external source under two conditions:

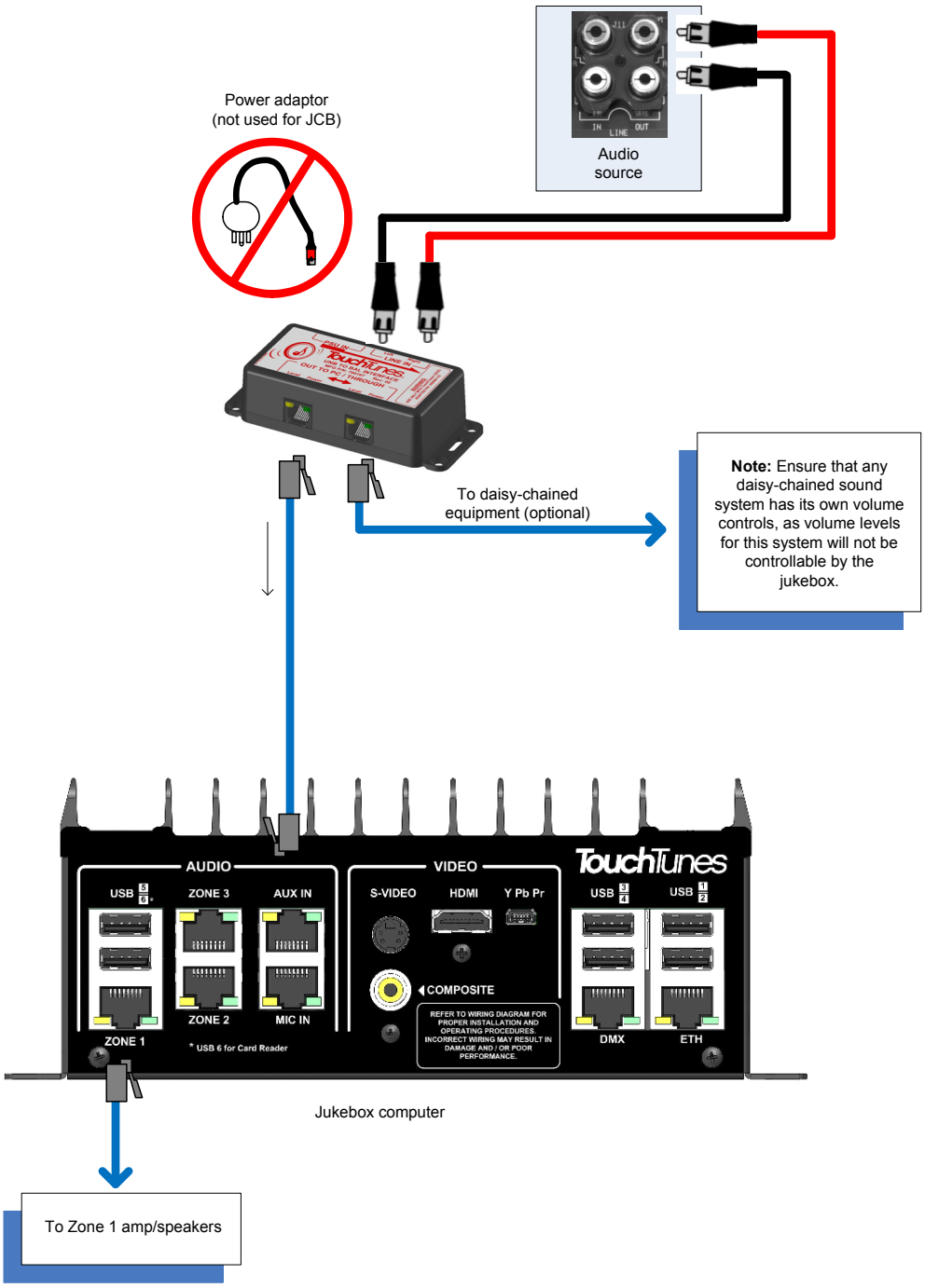
1. When the jukebox is not in use. That is, no songs are currently playing and the jukebox has not been paused.
2. The Background Music feature is not scheduled for the current time.

Requirements

- **Cabling:** Use standard Cat-5 cable.
- **RCA connectors:** Two RCA connectors (male) are required to connect the cable to the DI box. By convention, a red connector is used for the right channel and a white connector is used for the left channel.
- **Location:** Locate the DI box as close as possible to the audio source.
- **Tie-wraps:** You will need tie-wraps to secure the wire on exit from the jukebox cabinet.
- **Tools:** You will need tools to install the audio cabling and attach the RCA connectors to it.

Procedure

To connect an external audio source to the Allegro MX-1, you must use the line-input DI box (part no. 700167-001) supplied with your parts kit. Refer to the following figure when performing this procedure.



Connecting an external audio source

1. Connect the RCA connectors from one end of the audio cable to the left and right outputs on the external audio device.
2. Connect the other end of the audio cable to the left and right input RCA jacks on the DI box.

3. Connect one end of a Cat 5 cable to the RJ45 output connector on the DI box.
4. Open either of the cable access ports on the rear of the Allegro MX-1.
5. Route the cable through the cable channel on the rear of the jukebox and then into the jukebox.
6. Plug the other end of the Cat 5 cable into the port labeled **AUX IN** on the computer.
7. Close the cable access channel.
8. Activate the Operator menu and adjust the input gain for the auxiliary device.

Note: If you hear a humming noise after enabling the external audio device, it may be caused by a ground loop. Ground loops can occur when there is more than one path to the electrical ground. A quick way to solve the problem is to install a ground loop isolator on the audio cable that connects the jukebox to the external audio device.

Connecting a Microphone

A microphone can be connected to the jukebox. The jukebox will automatically mute the song that is currently playing when the talk button on the microphone is activated.

Requirements

• **Microphone:** The microphone should be

Balanced	Balanced mics allow for longer cable lengths with less noise.
Low-impedance	To keep noise to a minimum, a mic with impedance less than 600 ohms is preferred. Mics with greater impedance may pick up more noise.
Dry contact (optional)	Sends a signal to the jukebox to indicate that the mic switch has been pressed.

Note: TouchTunes' newly designed MIC box has a bypass switch, enabling the use of any microphone, regardless of whether it has a talk-over switch.

TouchTunes recommends that you use a cardioid dynamic microphone. These microphones are low impedance (150 ohms).

Note: Condenser and electret microphones will not work, as no DC (phantom) power is supplied.

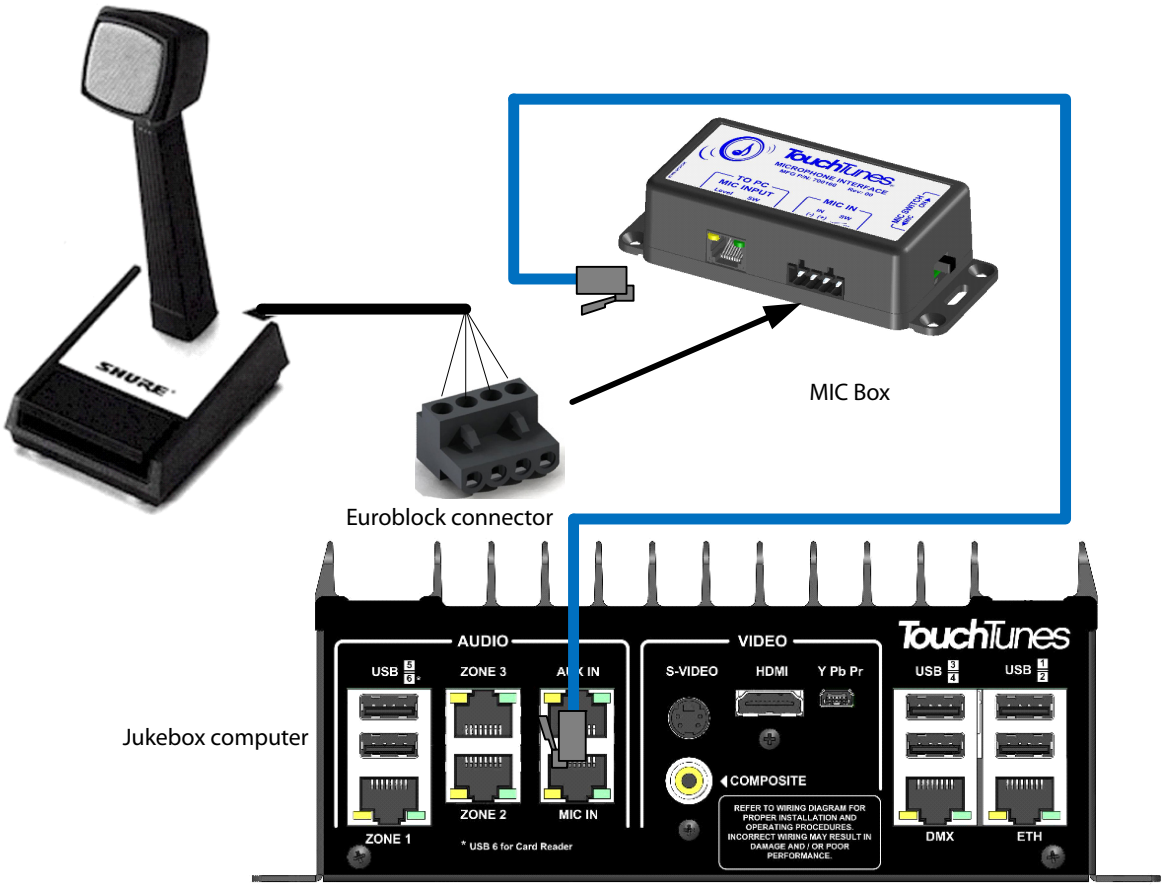
• **Cabling:** Use standard Cat-5 cable.

• **Tie-wraps:** You will need tie wraps to secure the microphone cable on exit from the jukebox cabinet.

- **Tools:** You will need tools (such as a drill and stapler) to run the microphone cable at the location.

Procedure

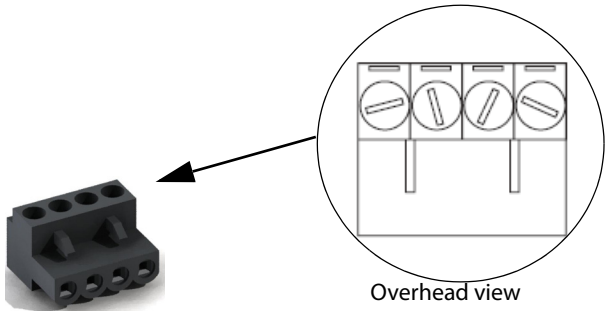
To connect a microphone to the Allegro MX-1, you must use the MIC box (part no. 700166-001) and the 4-pin Euroblock connector (part no. 100000-001) supplied with your parts kit. Refer to the following figure when performing this procedure.



Connecting a microphone

1. Prepare the microphone cable by stripping the ends of the 4 connector wires, exposing approximately 1/4" of wire.
2. Locate the supplied four-slot Euroblock connector for the MIC box.

3. Loosen the screws along the top of the connector using a flat-head screwdriver, if necessary.



Euroblock terminals

4. Wire the ends of the 4 microphone wires to the Euroblock connector using the legend on the DI box's label as a guide.

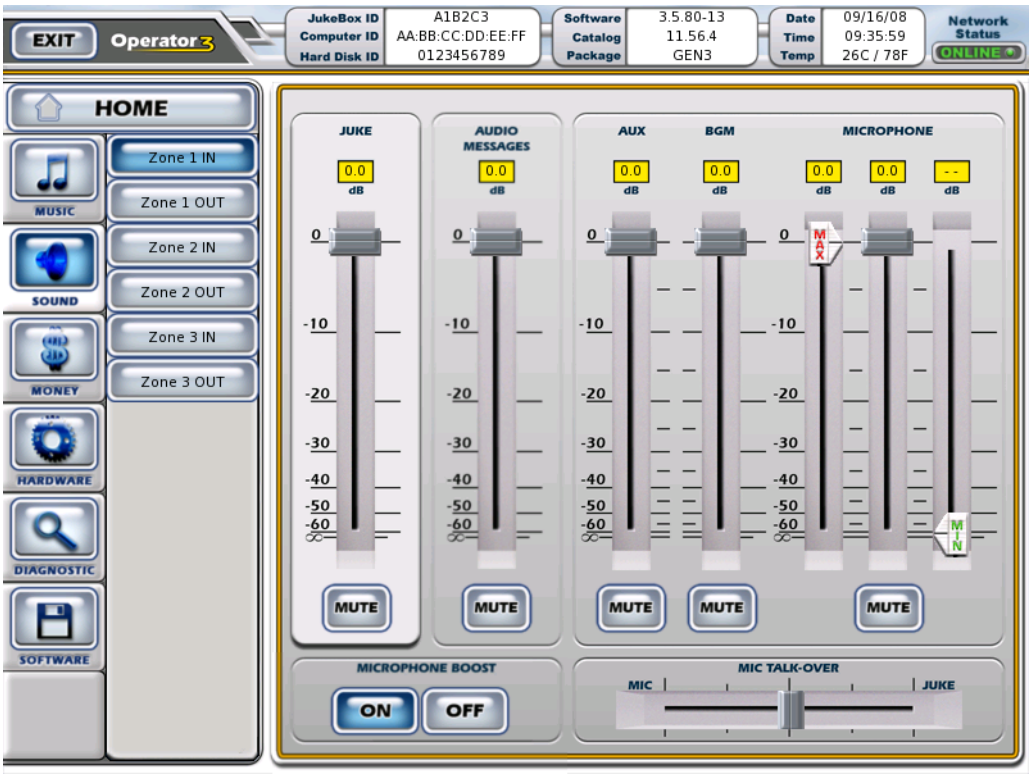
Wiring legend

Note: Refer to the manufacturer's documentation for your particular microphone to determine color coding and wiring information.

---

5. Using a flat-head screwdriver, tighten the screws of the slots for the microphone to secure the speaker cable to the connector.
6. Attach the Euroblock connector to the connector labelled **MIC IN** on the MIC box.
7. Connect one end of a Cat 5 cable to the RJ45 output connector labelled **TO PC MIC INPUT** on the MIC box.
8. Open either of the cable access ports on the rear of the Allegro MX-1.
9. Route the cable through the cable channel on the rear of the jukebox and then into the jukebox.
10. Plug the other end of the Cat 5 cable into the port labeled **MIC** on the computer.
11. Close the cable access channel.

12.Activate the Operator menu and adjust the input gain for the microphone.



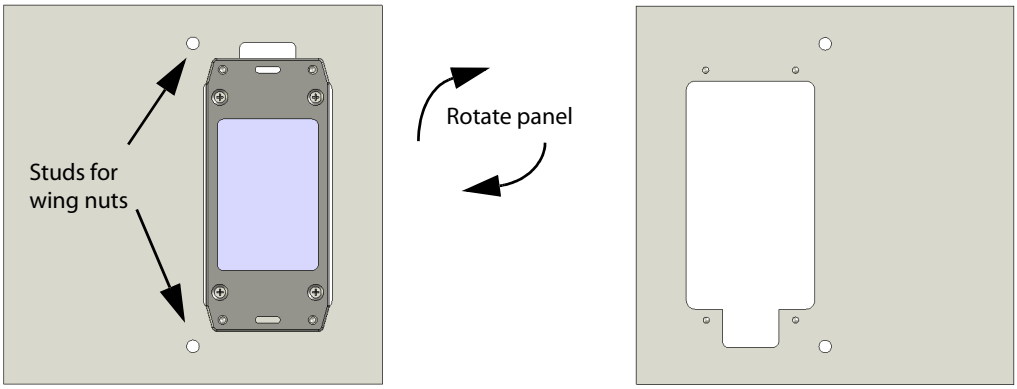
Mixer Input Screen

Note: The Mixer Input screen includes a **Microphone Boost** button, which is independently controllable for the three audio zones. The default value is **OFF**.
Adjust your microphone gain and boost settings as required.

Relocating the Wired Remote (Optional)

The wired remote control for the Allegro MX-1 is installed on the rear wall of the cabinet. For the majority of installations, this location is most suitable and convenient. However, some establishments may wish to relocate the wired remote in a location more suited to their particular requirements.

For this reason, the wired remote is mounted on a reversible MDF panel fastened to studs on the rear interior wall of the cabinet with two wing nuts. The reversible panel ensures that you are not left with a hole in the cabinet once the wired remote is removed.



Before removal

After removal; panel rotated

Wired remote mounting panel before and after removal

To relocate the wired remote:

1. Disconnect the RJ11 flat cable from its connector on the wired remote.
2. Remove the 4 screws that secure the wired remote to the MDF panel and remove the remote.
3. Remove the 2 wing nuts that secure the MDF panel to the wall of the cabinet.
4. Remove the panel from the studs and reinstall it, rotating it 180 degrees so that the cutout is now on the left side of the panel.

You can now relocate the wired remote.

Note: Any standard 4-wire phone extension cable can be used.

When reconnecting the cable to the wired remote, run the cable through one of the cable access ports in the service tray.

A Connection Diagrams

This appendix provides connection diagrams showing connections within the

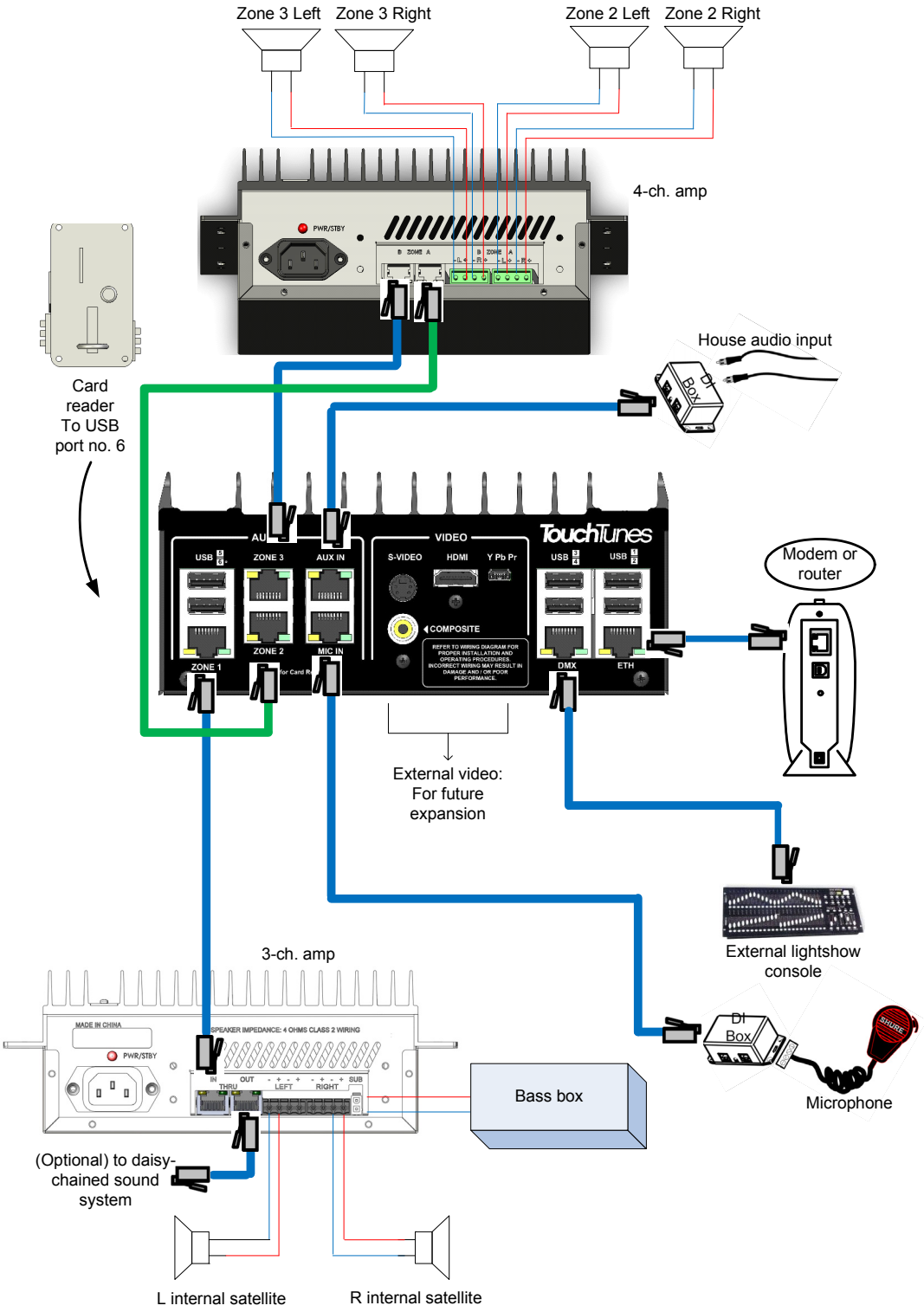
Allegro MX-1 jukebox, as well as those outside of the jukebox.

Overview

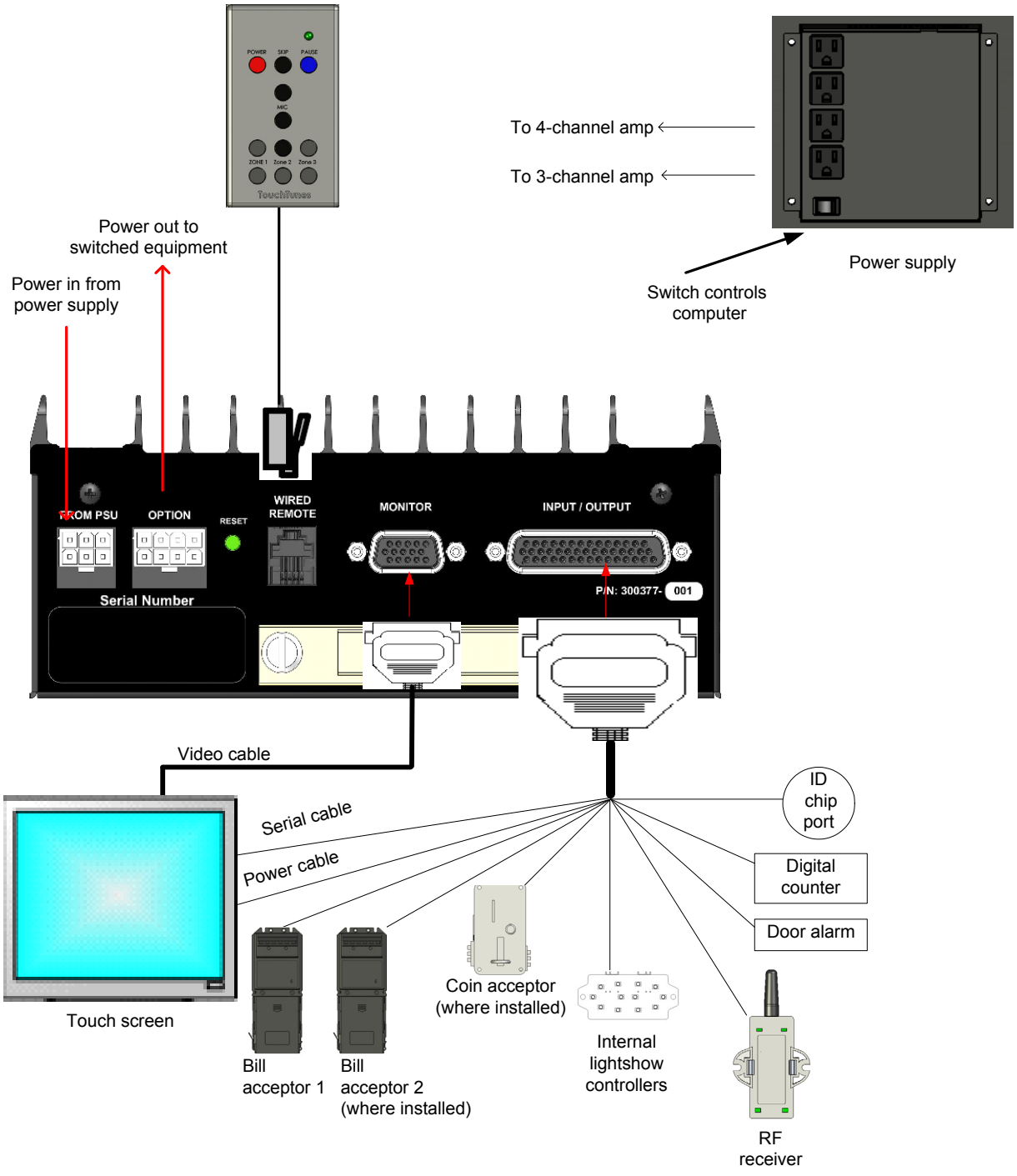
This appendix provides a block wiring diagram showing all connections within Allegro MX-1 jukebox components, as well as those between the jukebox and other external components, such as audio amplifiers. You can refer to this diagram while setting up the Allegro MX-1 in a location or as a post-installation check to ensure all components are connected correctly.

Note: These diagrams are provided for instructive purposes only, and are not drawn to scale.

JCB Top Panel Connections



JCB Bottom Panel Connections



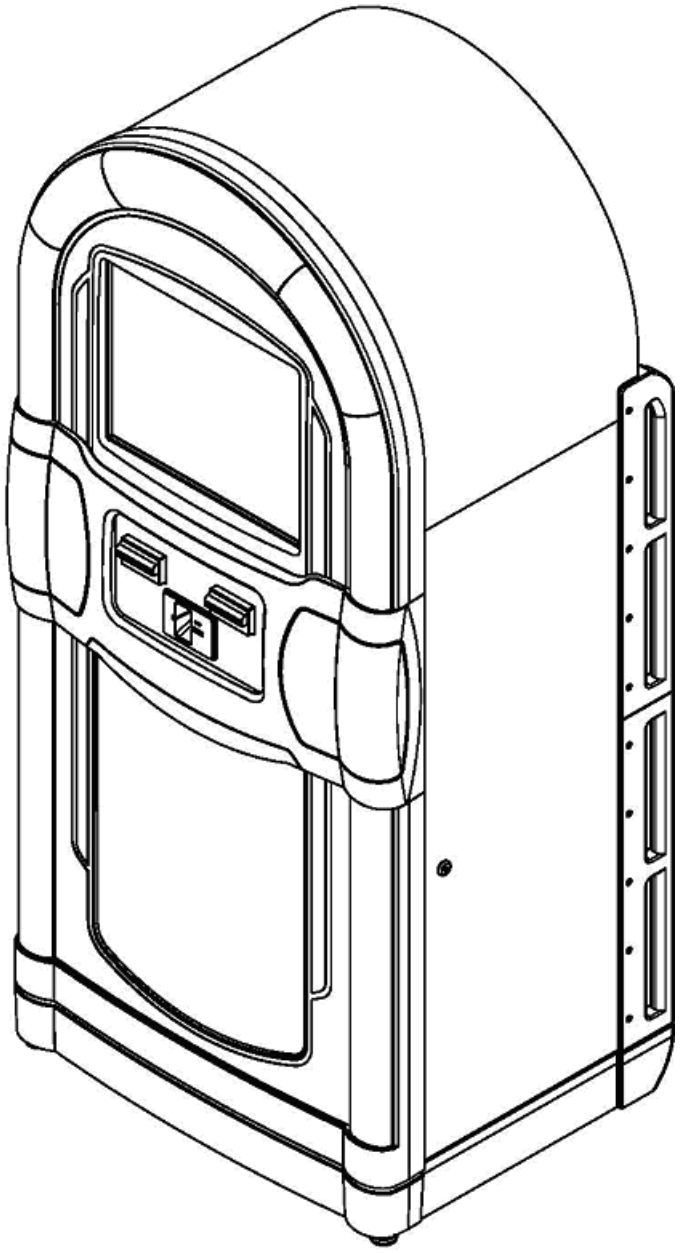
B Parts Catalog

This chapter provides information to help you locate and identify the parts of your Allegro MX-1 jukebox.

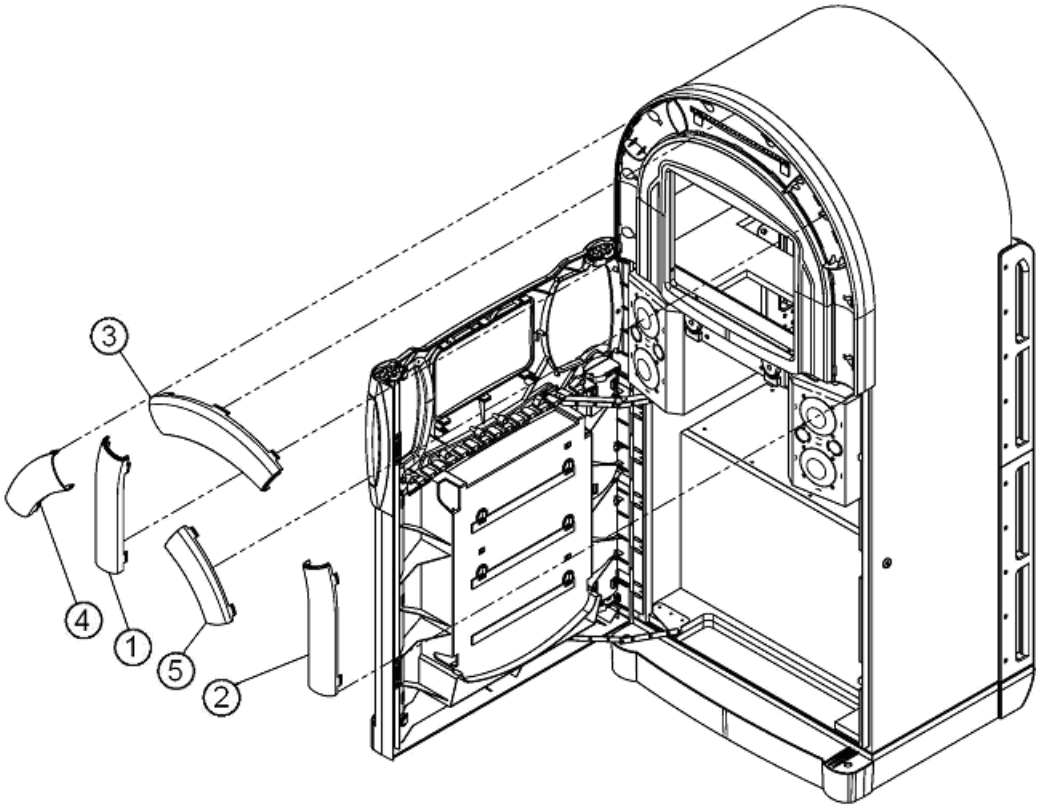
Assembly

Use the following illustrations and the table on page 104 to identify the parts of your Allegro MX-1.

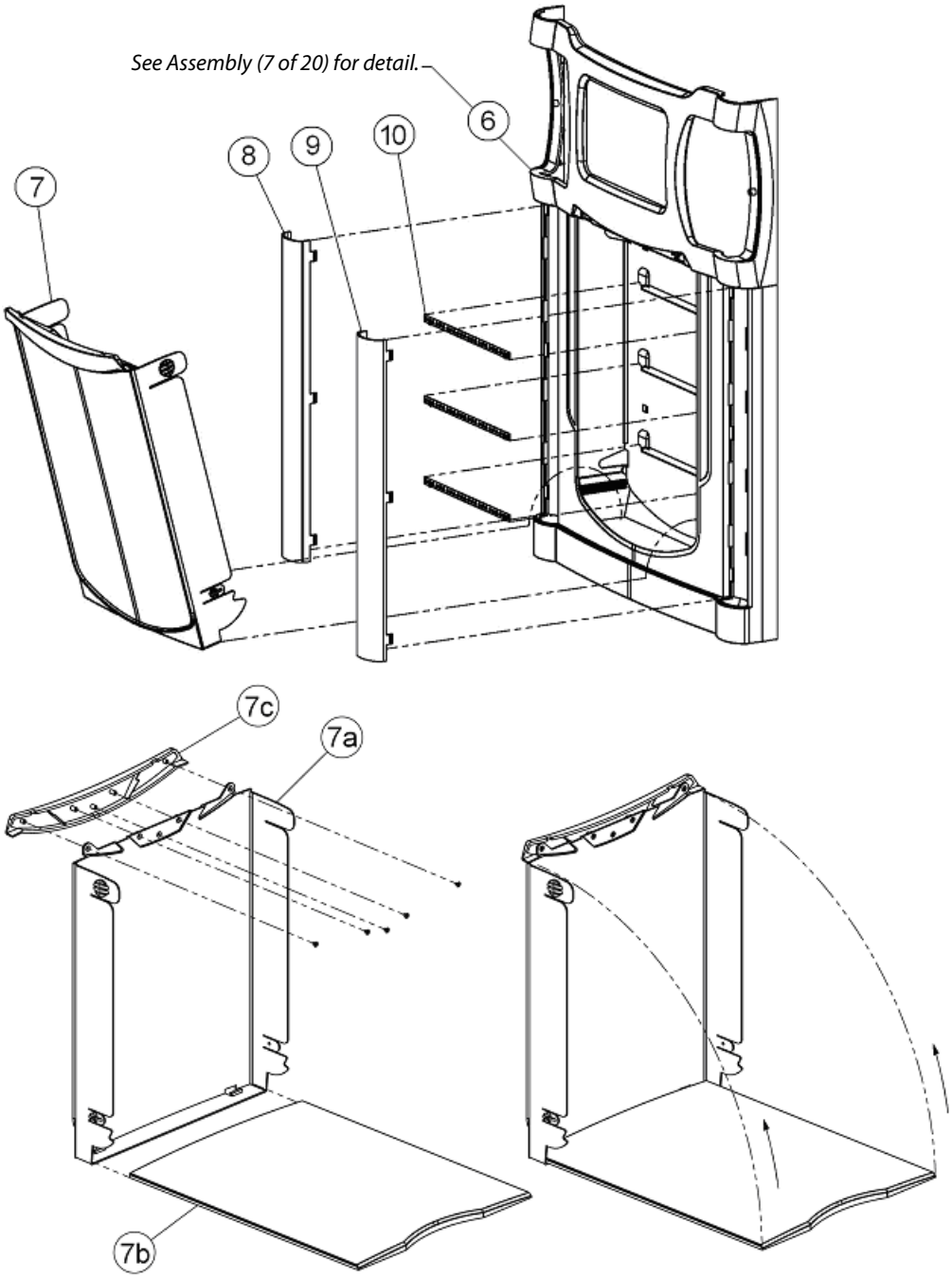
Note: Models may differ slightly from those illustrated.



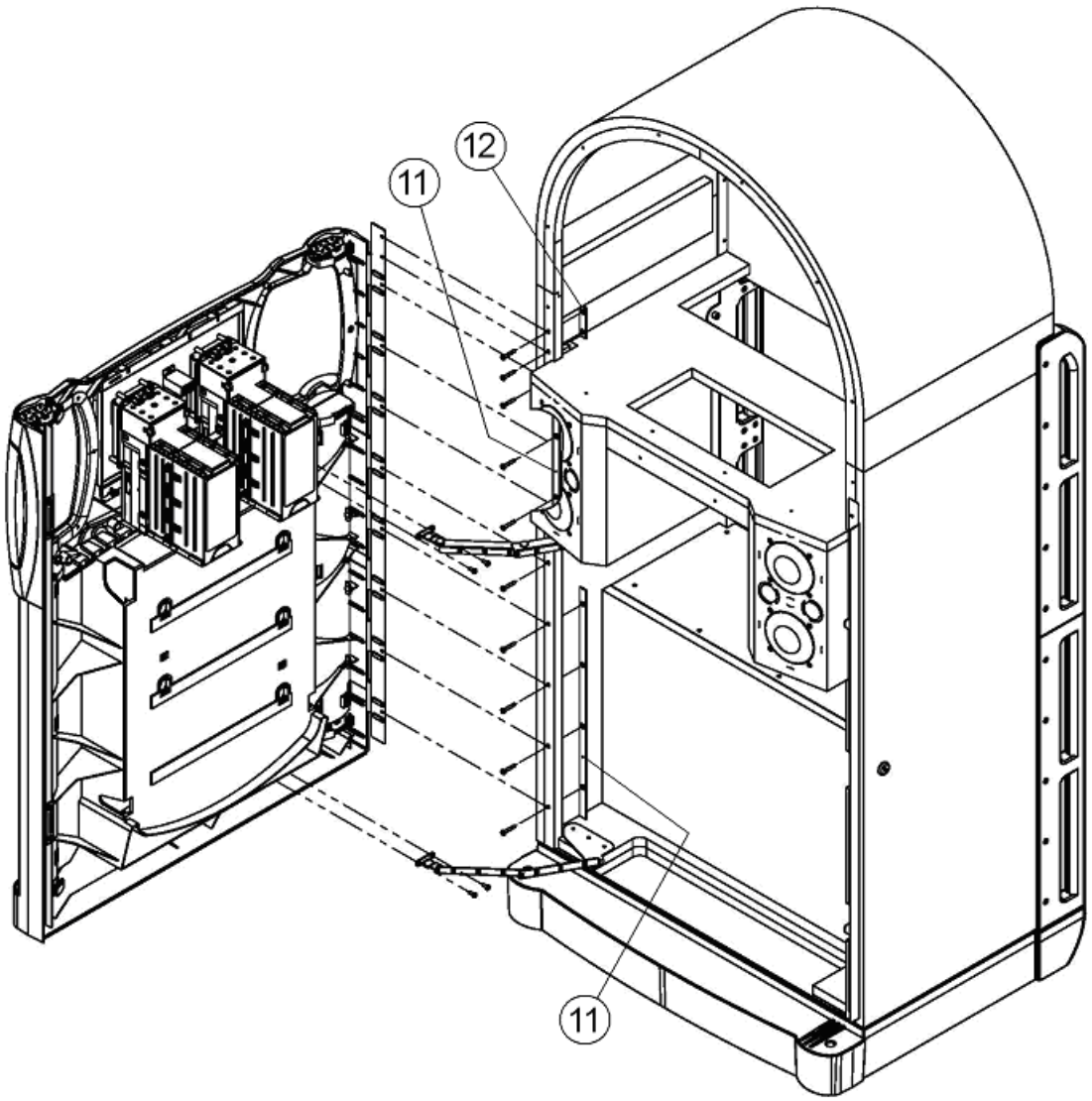
Assembly (1 of 20)



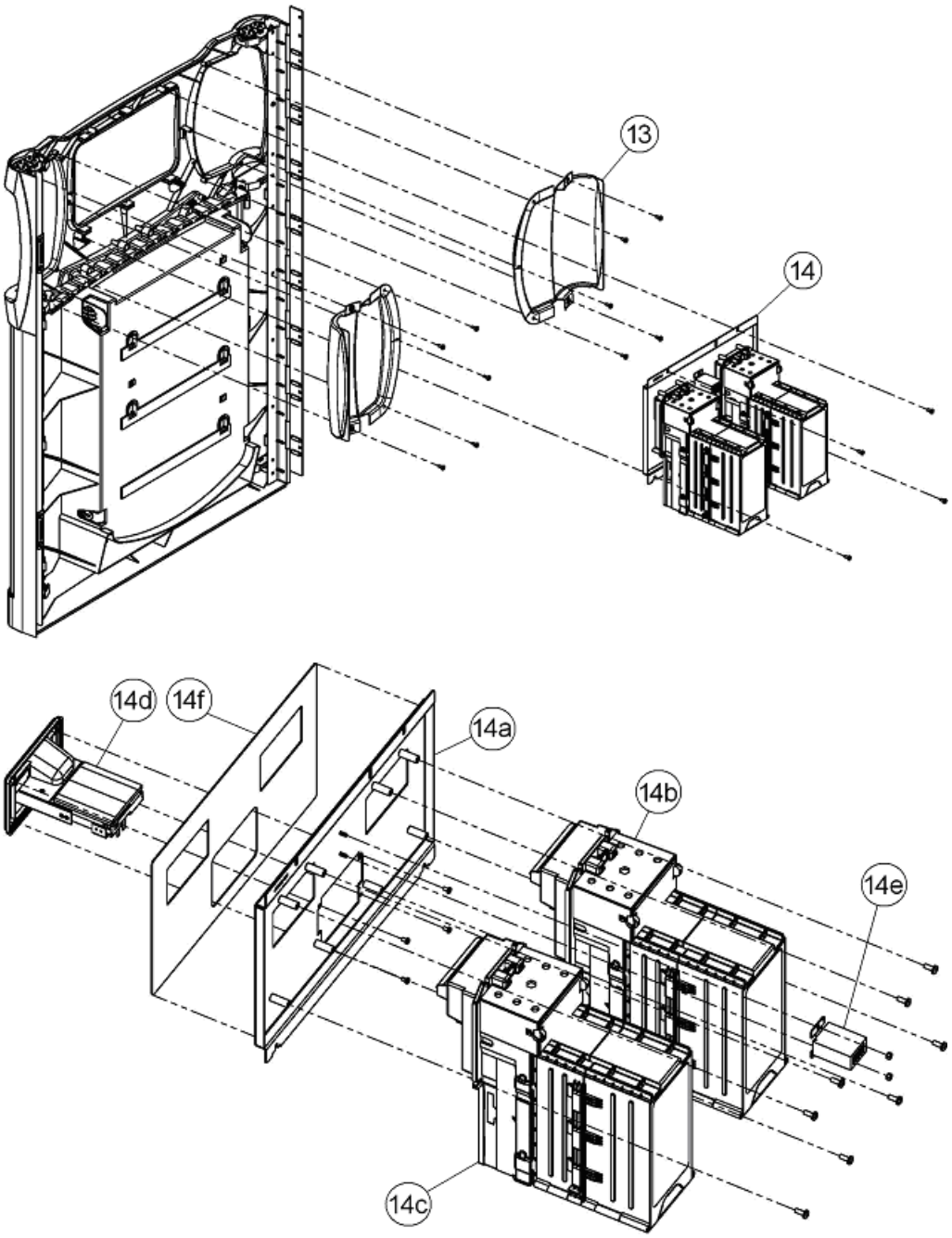
Assembly (2 of 20)



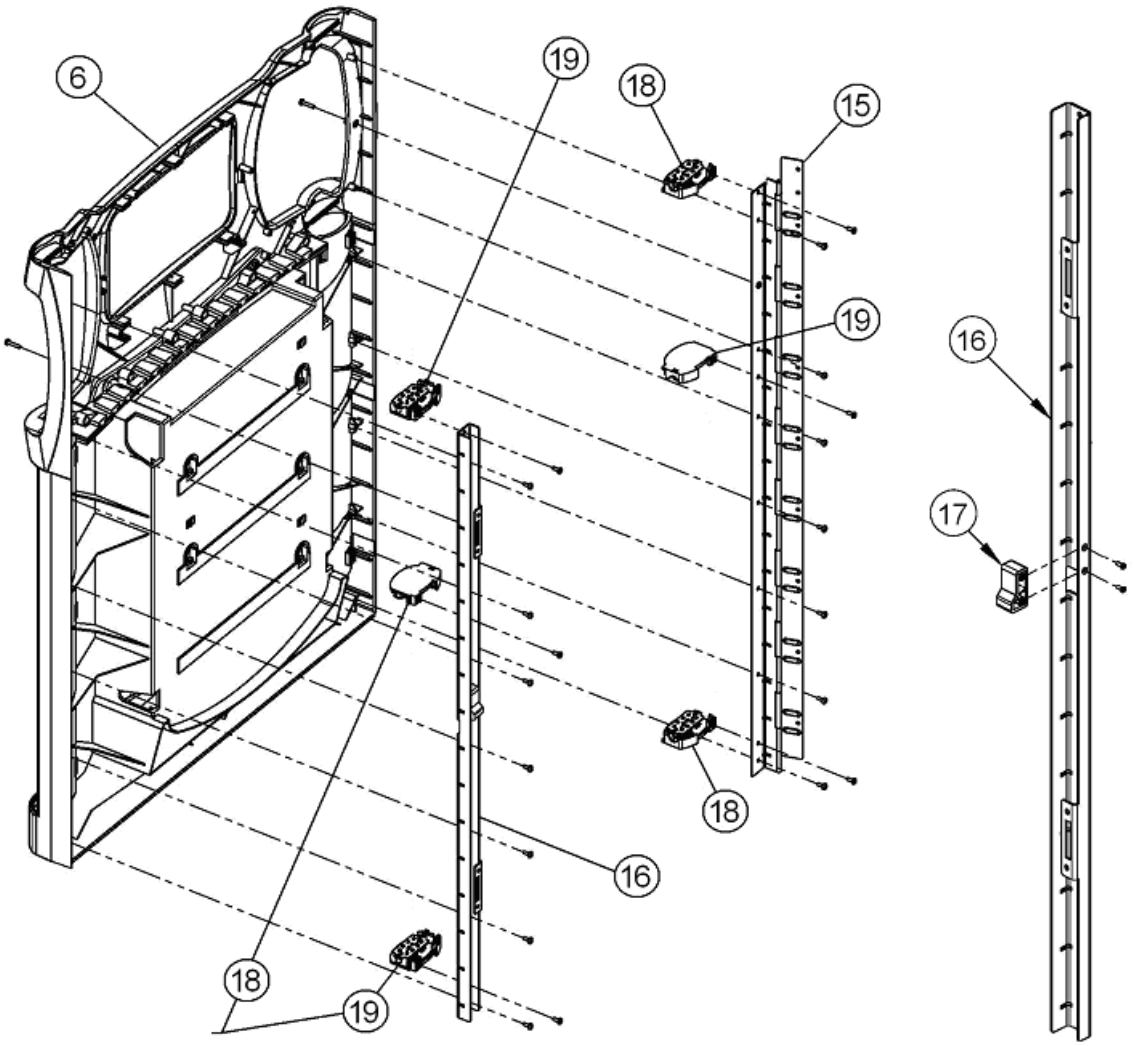
Assembly (3 of 20)



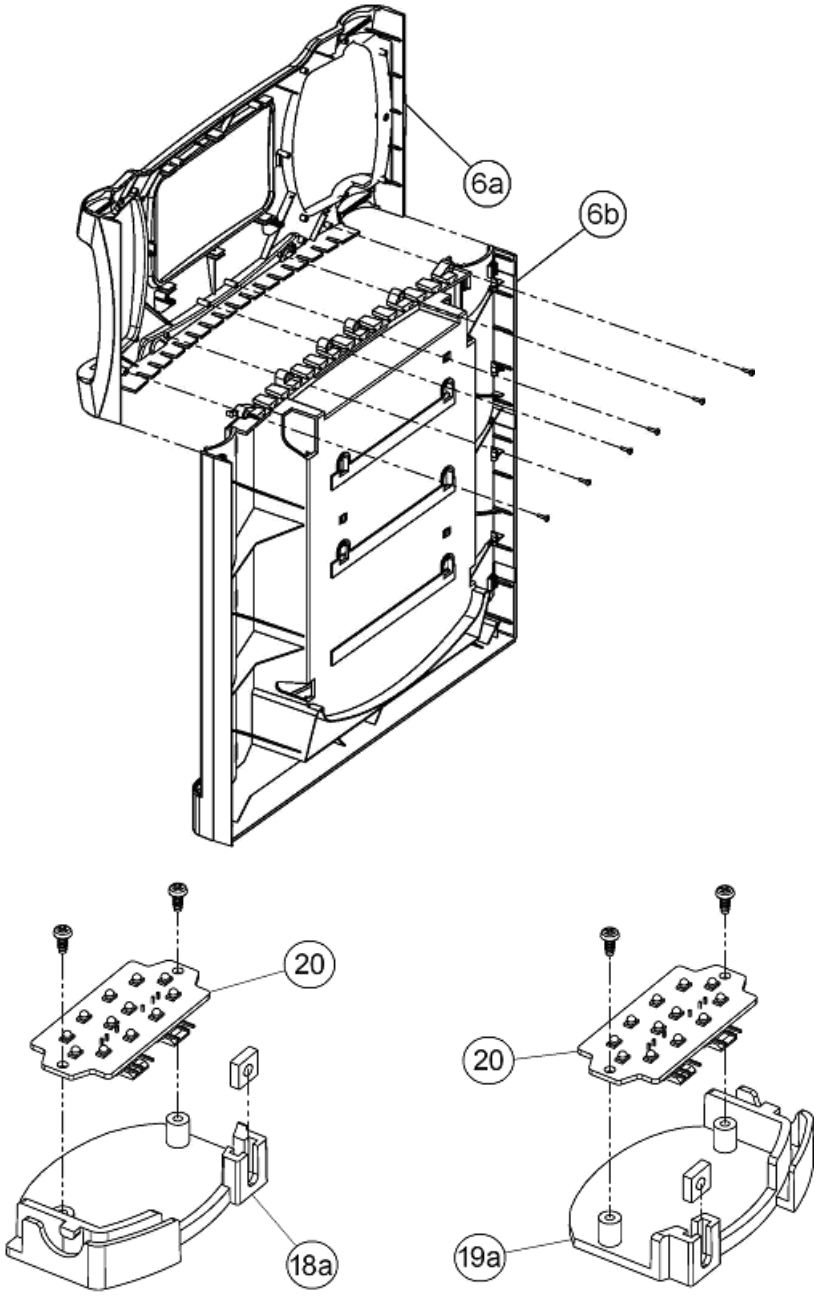
Assembly (4 of 20)



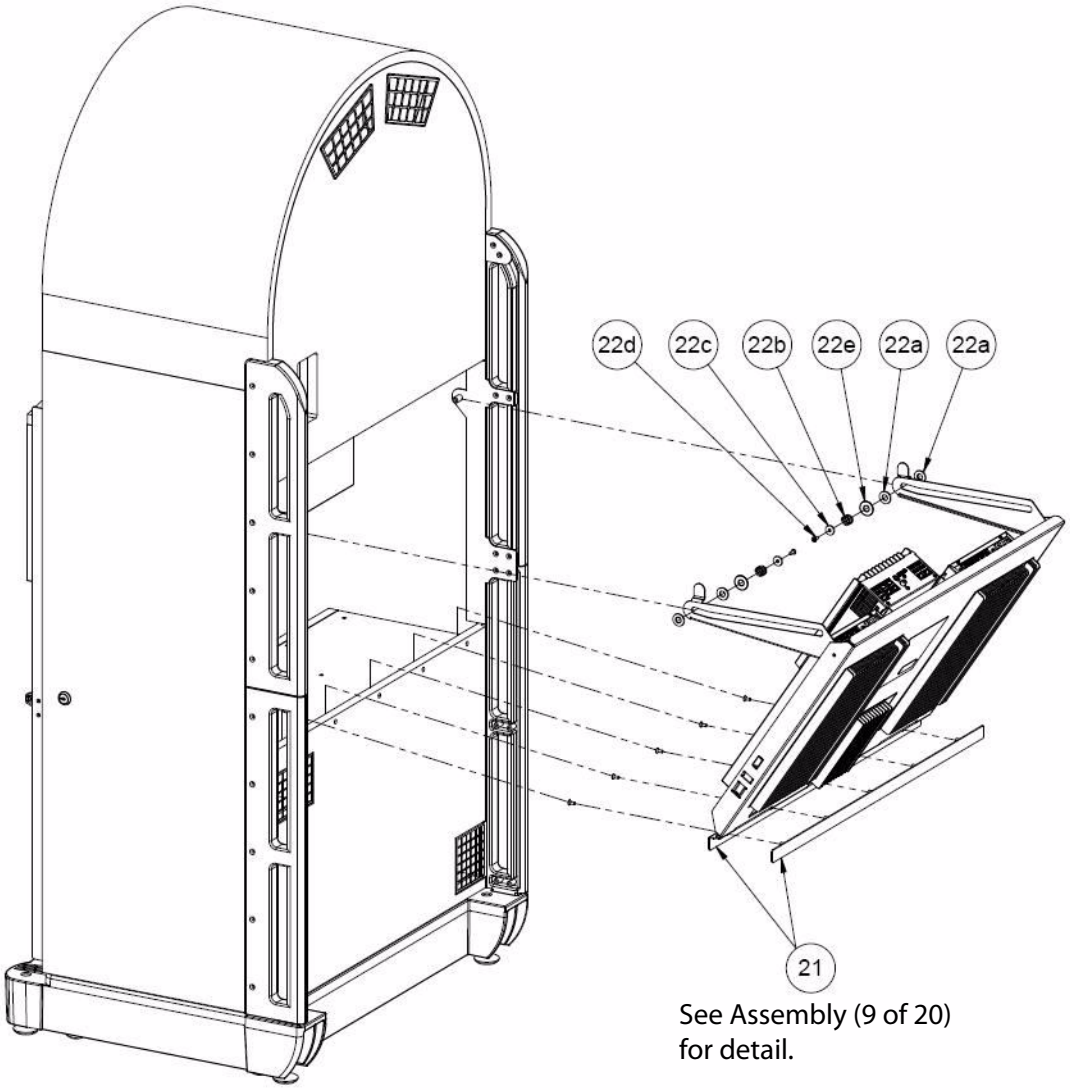
Assembly (5 of 20)



Assembly (6 of 20)

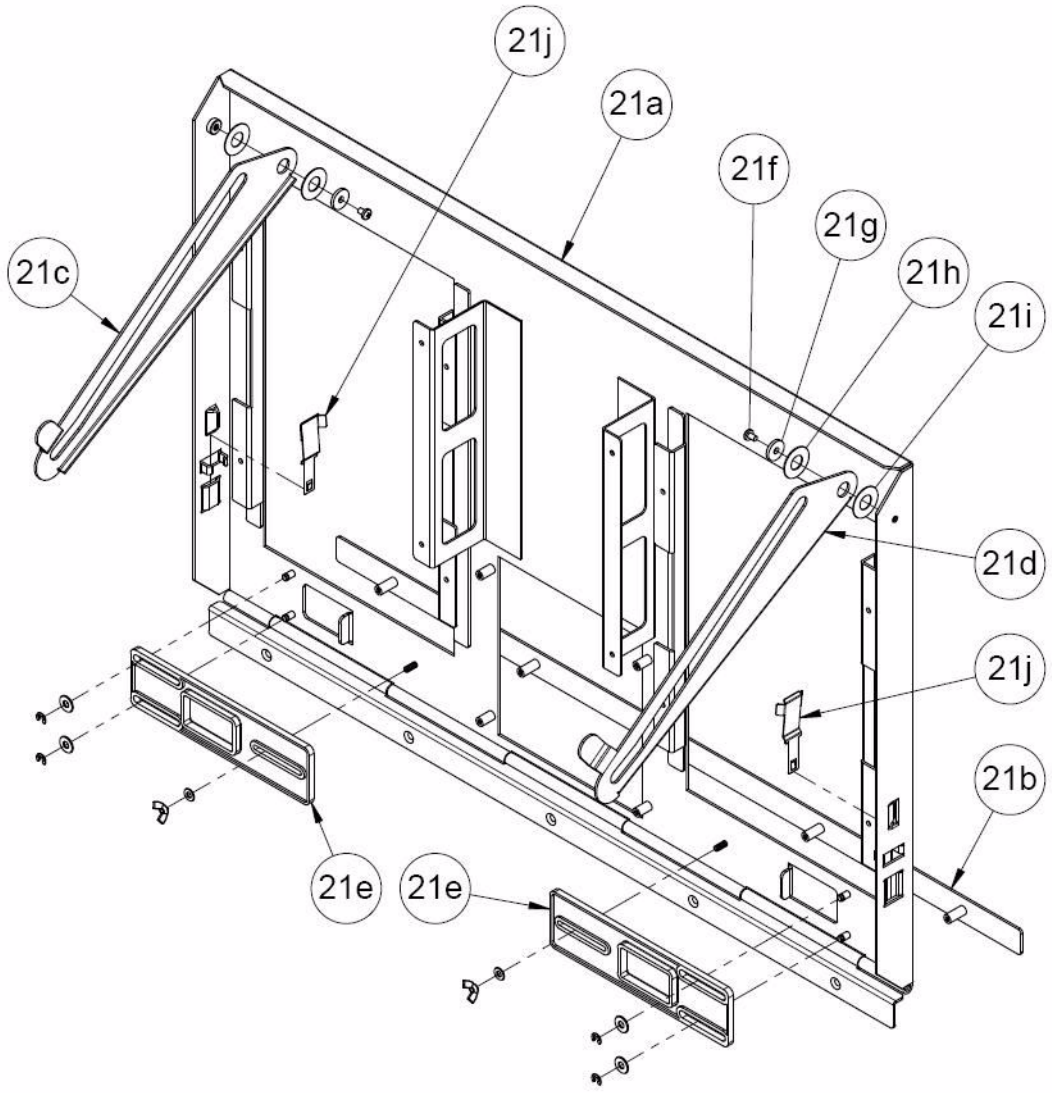


Assembly (7 of 20)

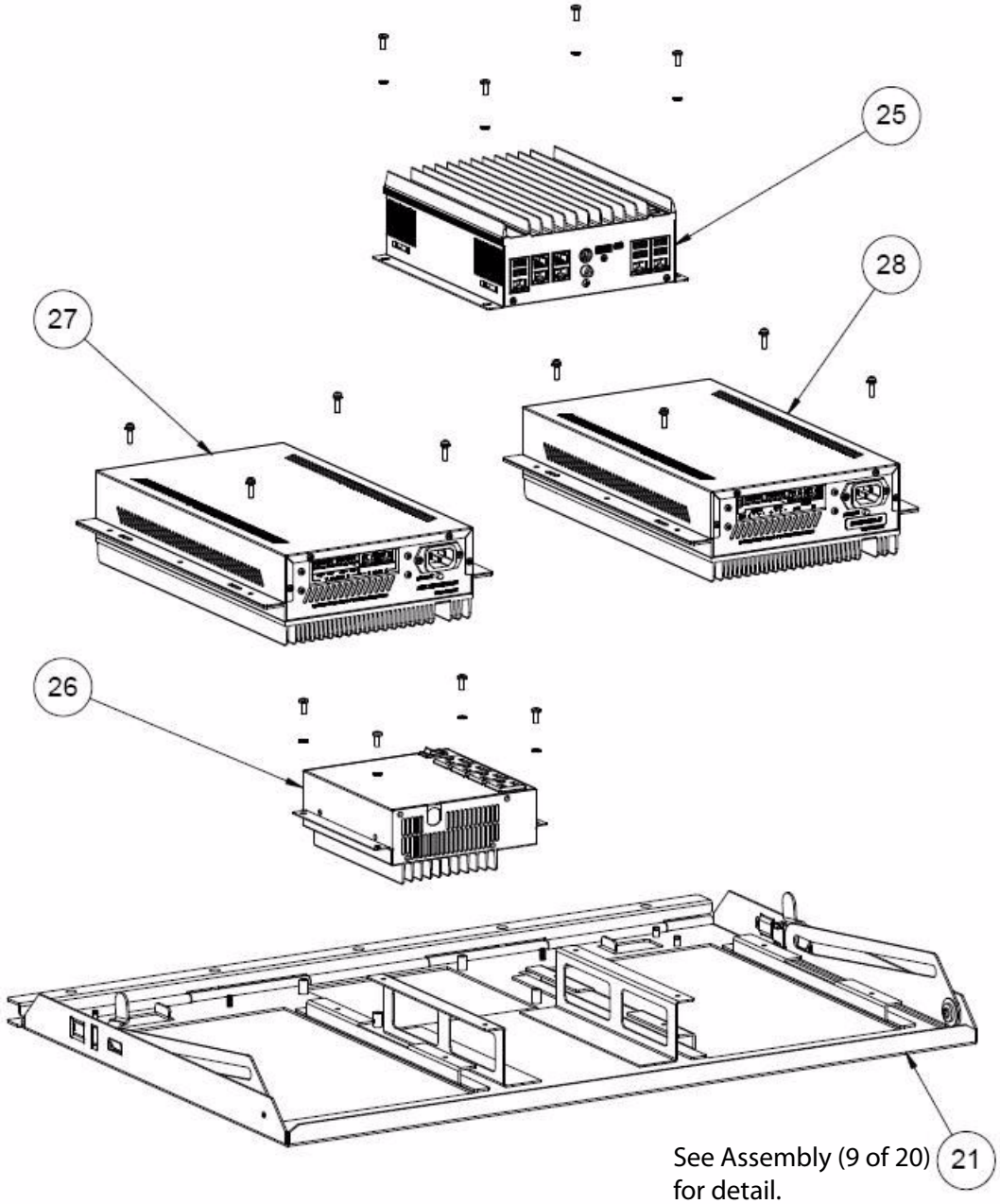


See Assembly (9 of 20) for detail.

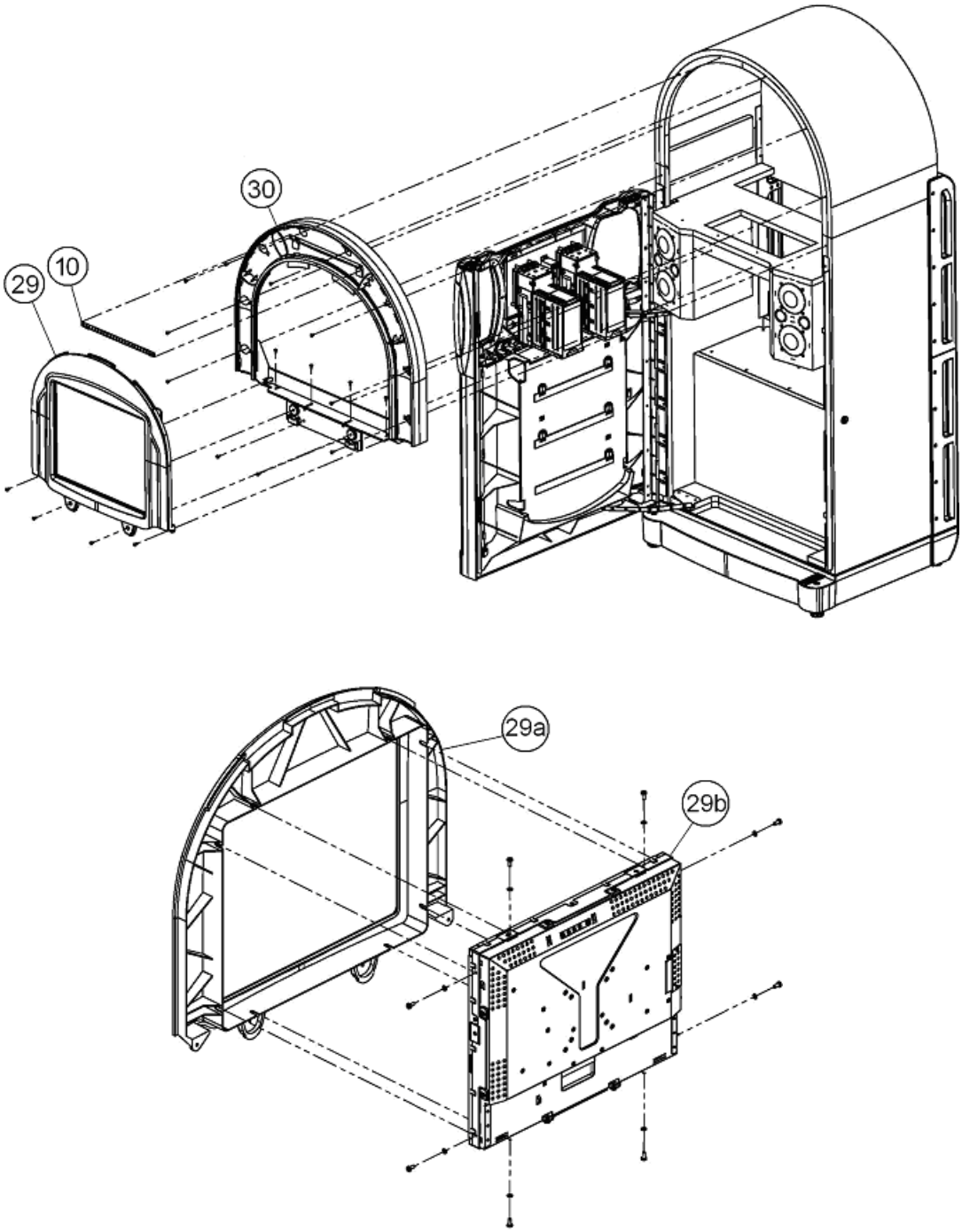
Assembly (8 of 20)



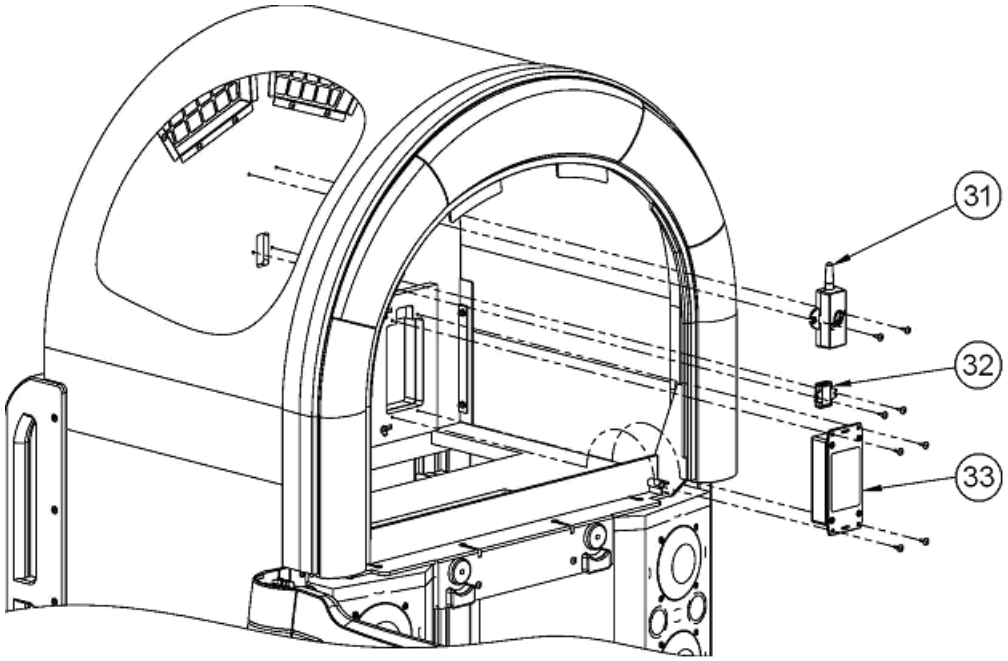
Assembly (9 of 20)

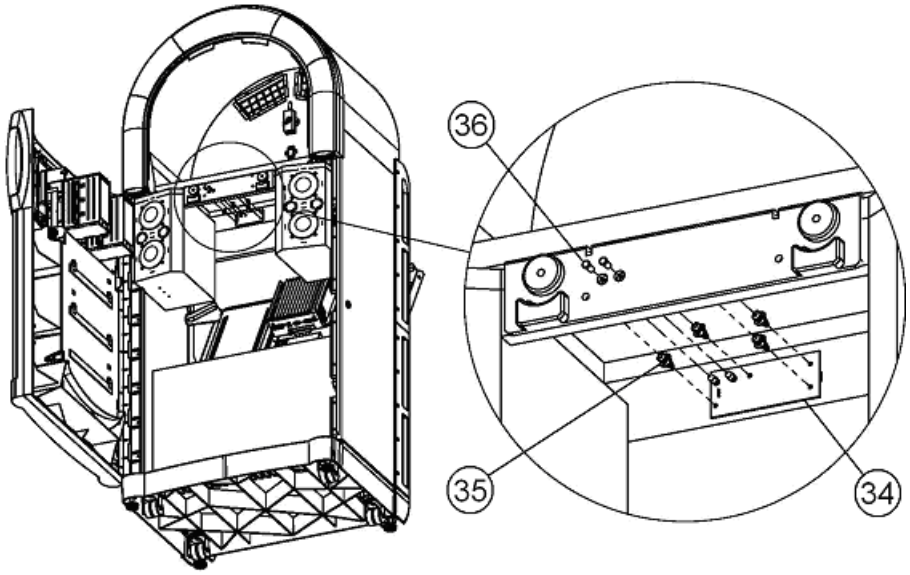


Assembly (10 of 20)

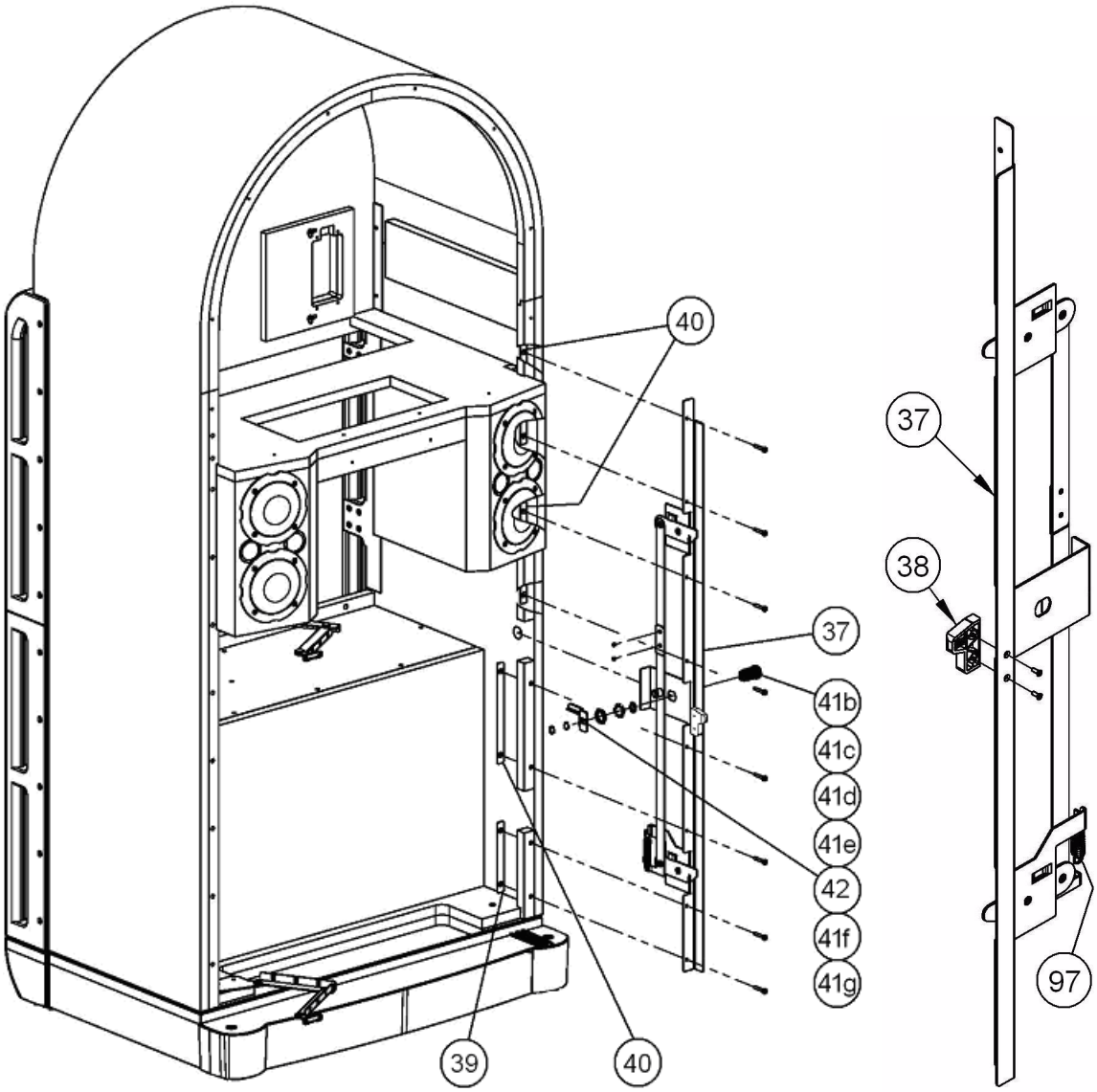


Assembly (11 of 20)

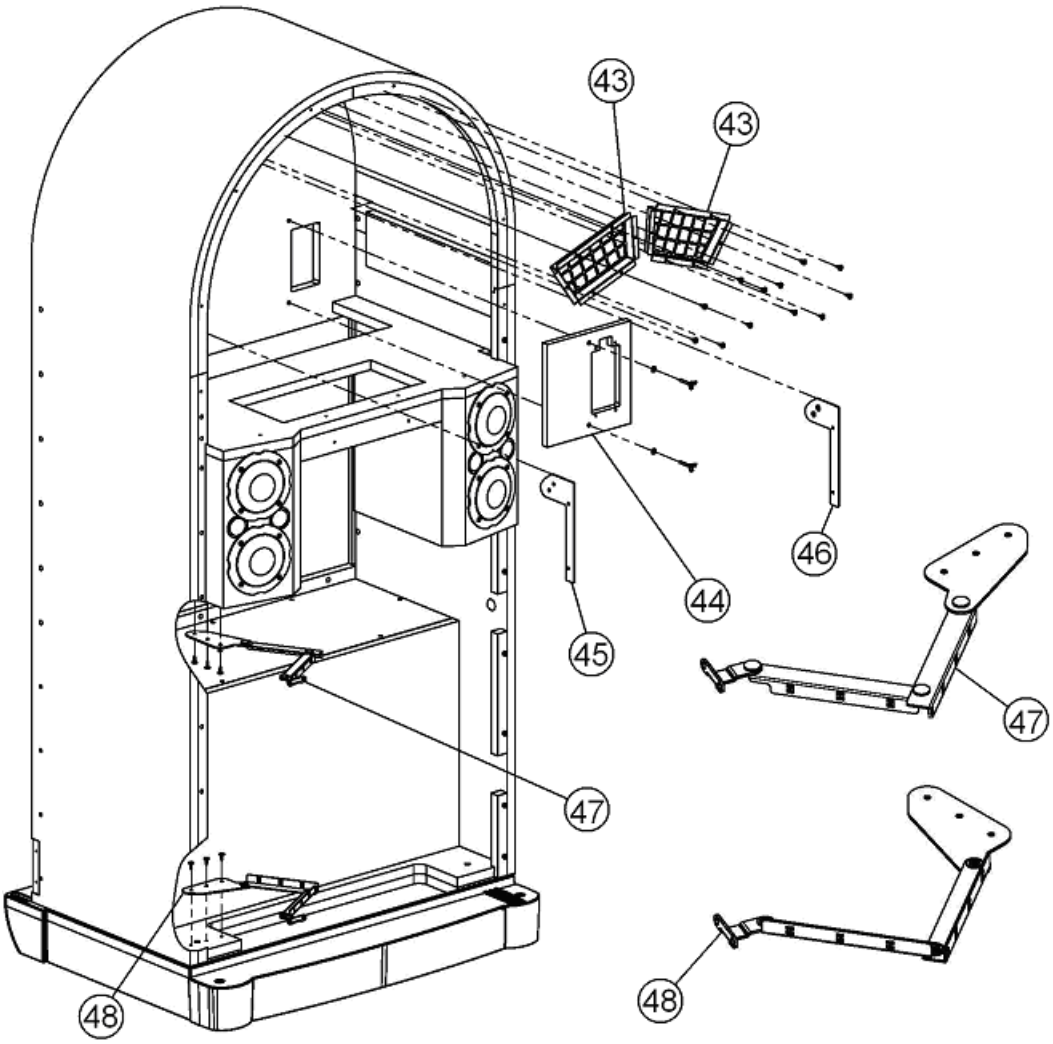




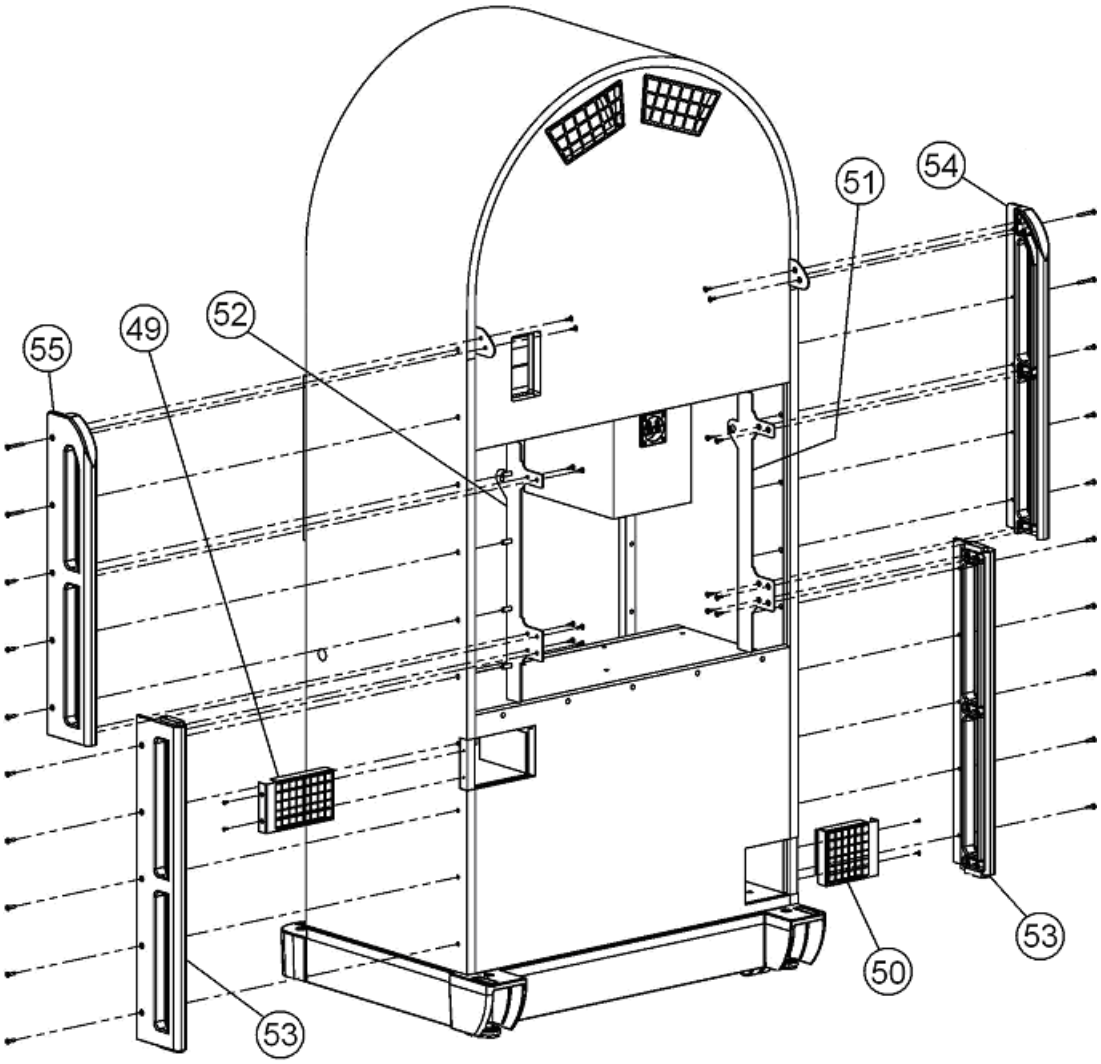
Assembly (12 of 20)



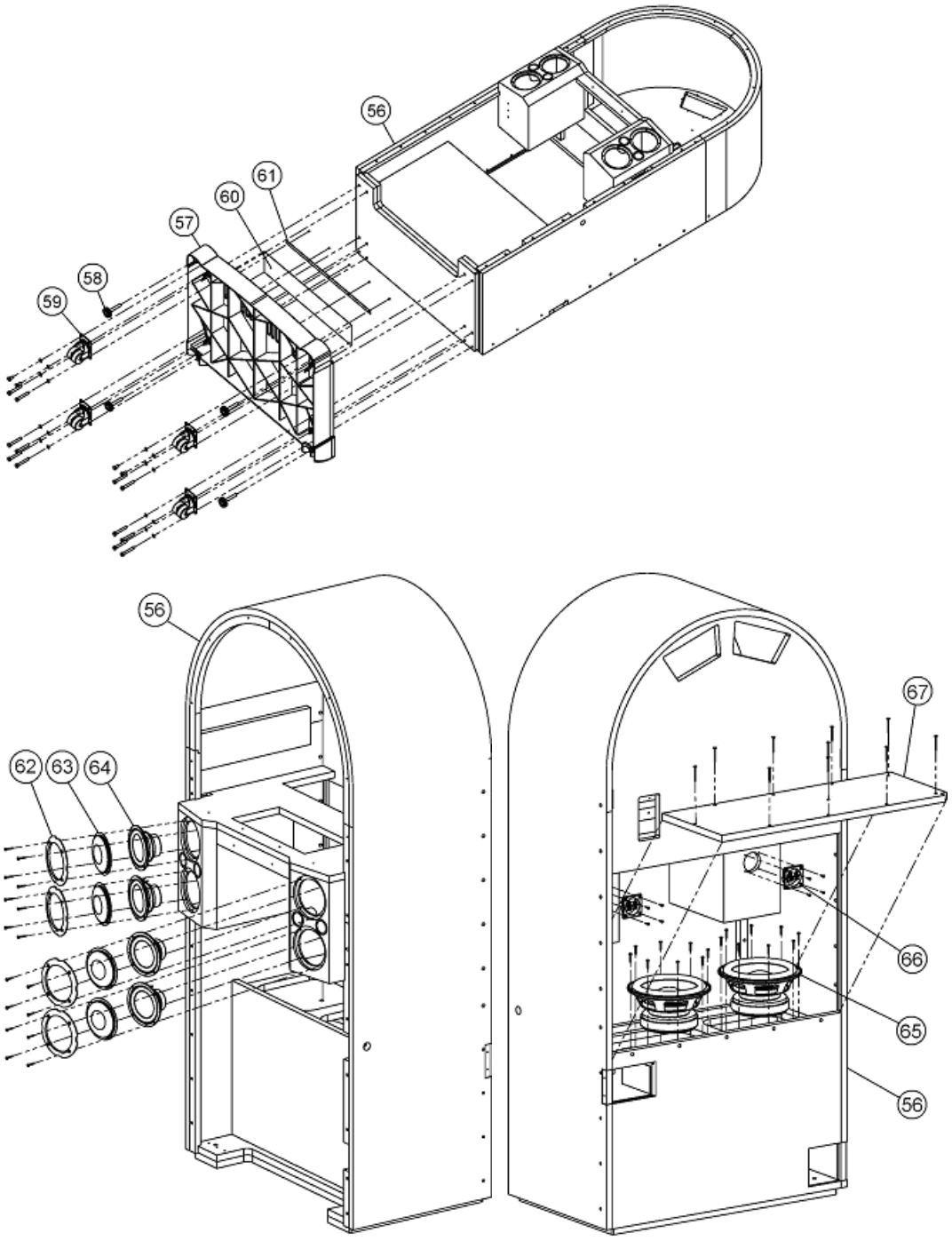
Assembly (13 of 20)



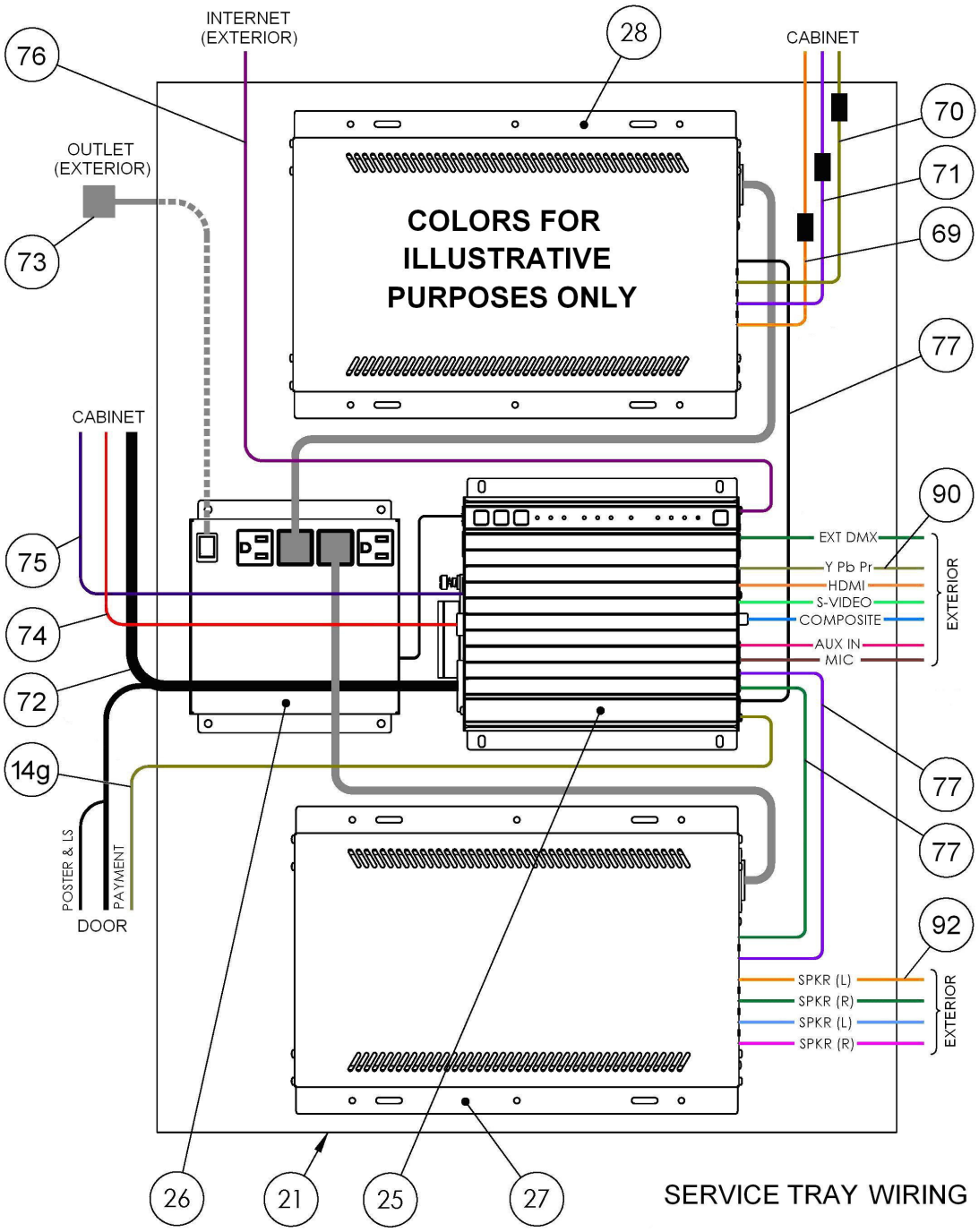
Assembly (14 of 20)



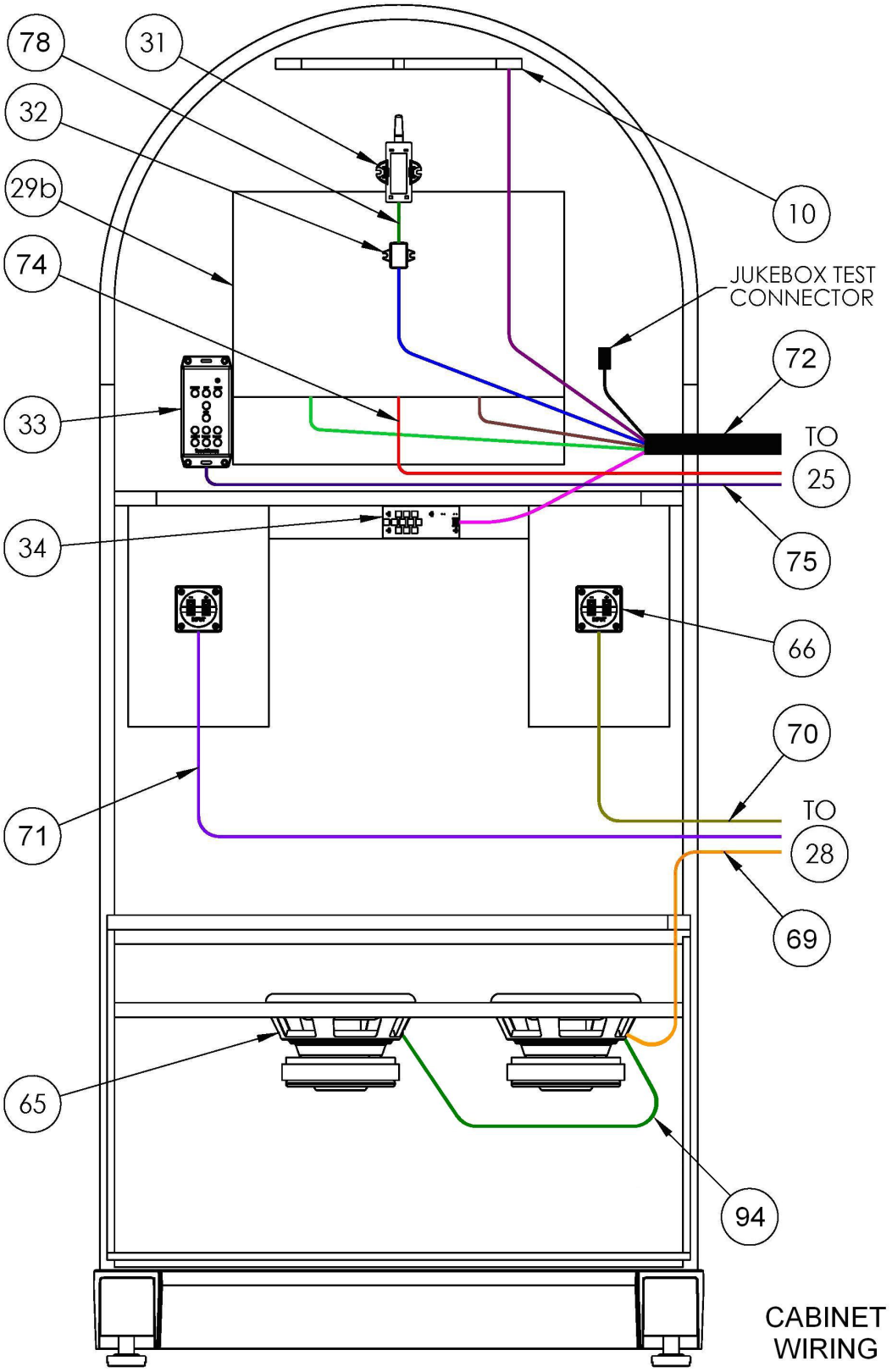
Assembly (15 of 20)



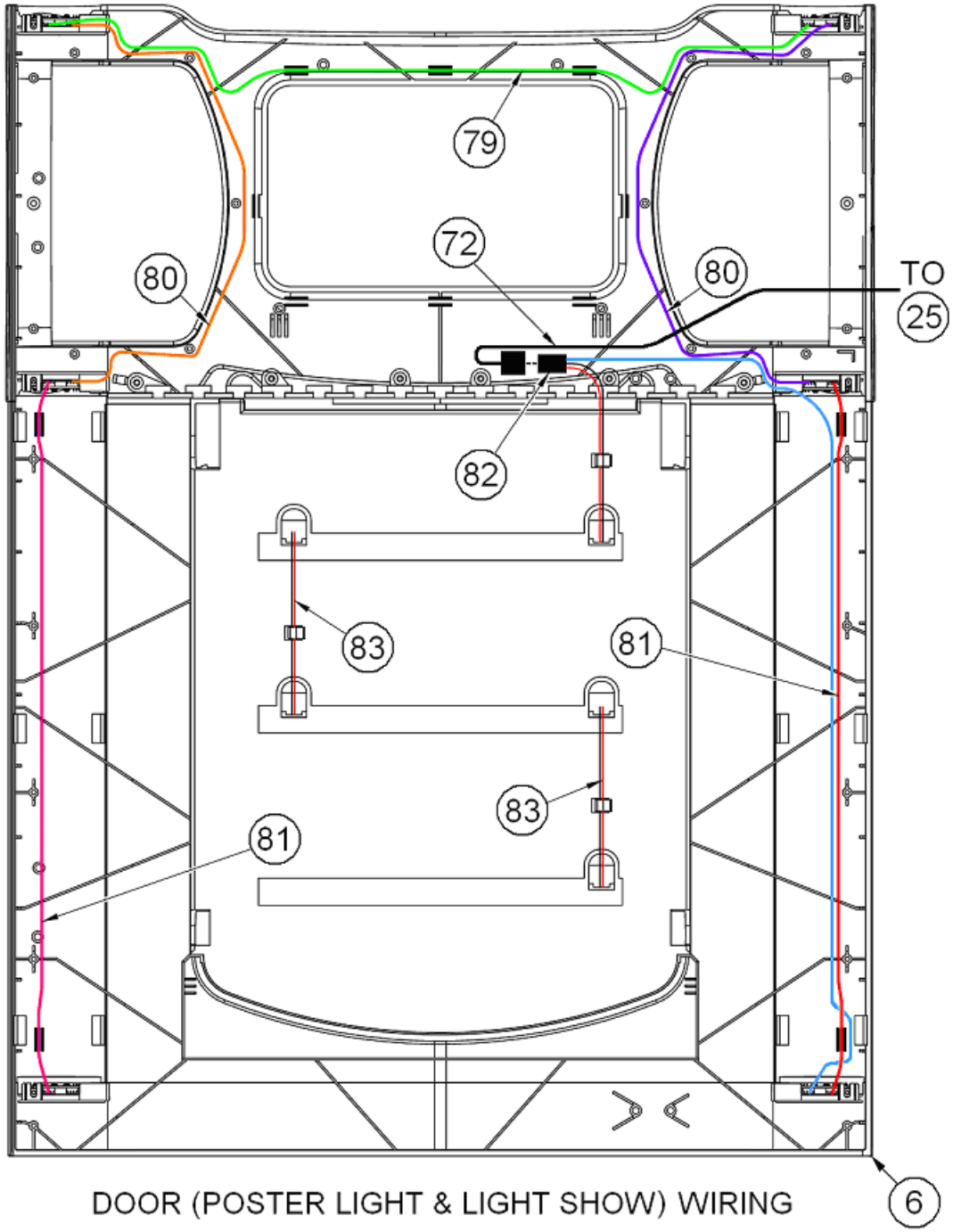
Assembly (16 of 20)



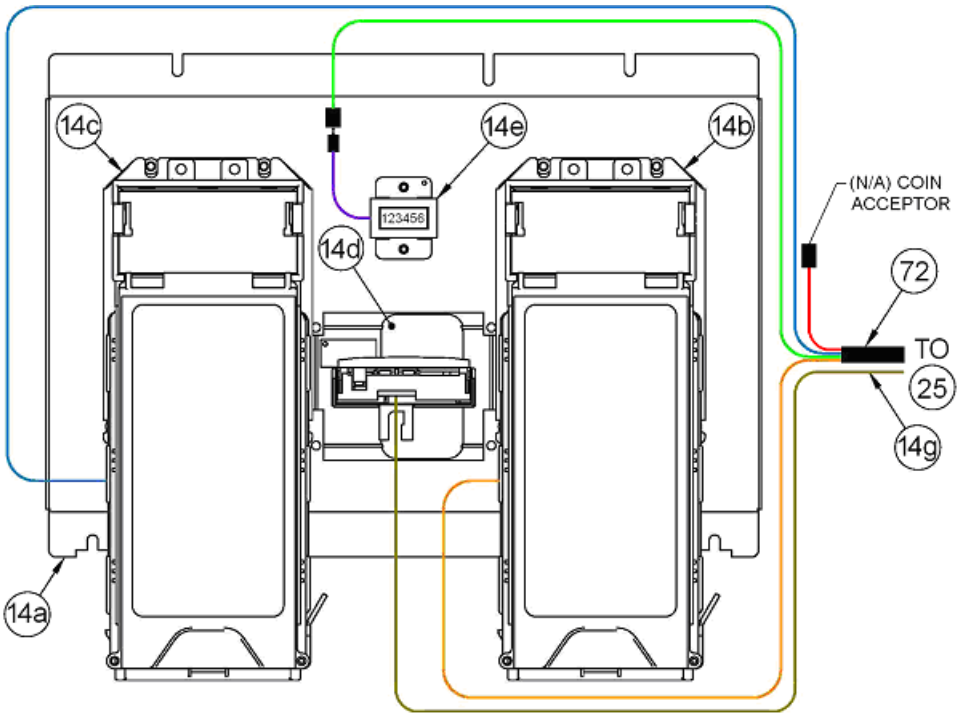
Assembly (17 of 20)



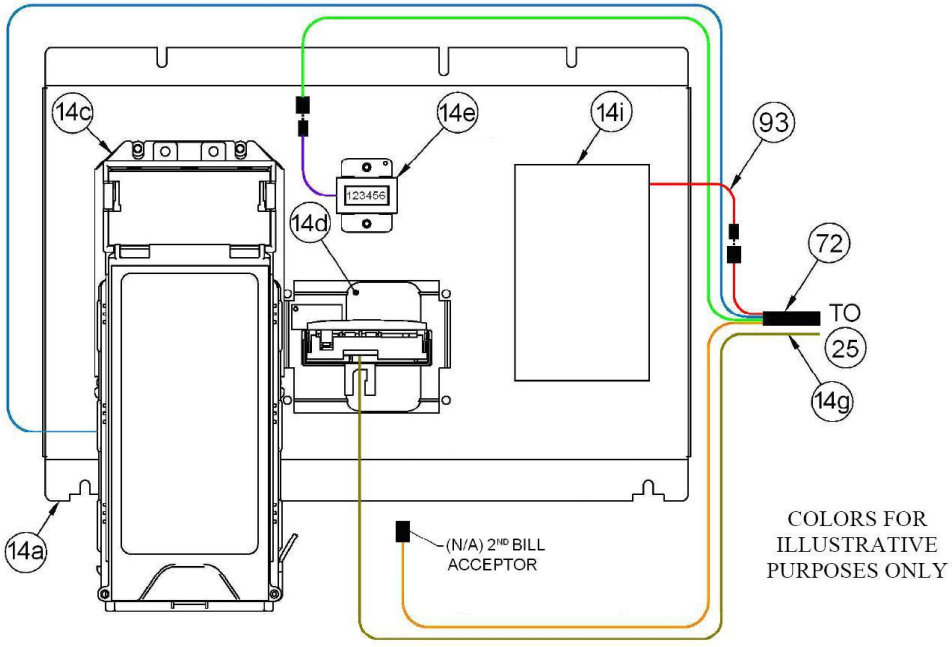
Assembly (18 of 20)



Assembly (19 of 20)



DOOR (PAYMENT) WIRING



DOOR (PAYMENT W/ COIN) WIRING

Assembly (20 of 20)

Parts List

Item	Part no.	Description	Qty.	Assembly	Note
1	400561-001	ARCH LENS, LEFT	1	2	
2	400561-002	ARCH LENS, RIGHT	1	2	
3	400437-001	ARCH LENS, TOP	1	2	
4	400438-001	ARCH SHADE, LEFT	1	2	
5	400438-002	ARCH SHADE, RIGHT	1	2	
6	-	DOOR FRAME ASSEMBLY	-	3,6,7,19	
6a	400450-001	DOOR FRAME, TOP	1	7	
6b	400451-001	DOOR FRAME, BOTTOM	1	7	ORDER W/ 6d, 6e, 10(3x)
6d	400511-001	DOOR LENS REFLECTOR,LEFT (NOT SHOWN)	1	-	
6e	400511-002	DOOR LENS REFLECTOR,RIGHT (NOT SHOWN)	1	-	
7	-	POSTER BAY ASSEMBLY	-	3	
7a	400454-001	POSTER FRAME	1	3	
7b	400501-001	POSTER BACKING	1	3	
7c	400455-001	POSTER SHADE	1	3	
7d	900071-011	POSTER (NOT SHOWN)	1	-	
8	400459-001	DOOR LENS LEFT	1	3	
9	400459-002	DOOR LENS RIGHT	1	3	
10	300217-001	LED STRIP, WHITE	4	3, 11, 18	
11	400445-001	DOOR MOUNTING PLATE, LONG	2	4	
12	400465-001	DOOR MOUNTING PLATE SHORT	1	4	
13	400453-001	SPEAKER GRILL W/ FABRIC	2	5	
14	-	PAYMENT KIT,US - DUAL BILL	-	5	
14a	400502-001	PAYMENT PLATE, US - DUAL BILL	1	5,20	
14b	400469-001	BILL ACCEPTOR, US	1	5,20	
14c	400469-001	BILL ACCEPTOR, US	1	5,20	
14d	400361-001	CARD READER	1	5,20	
14e	100248-006	COUNTER MODULE	1	5,20	
14f	900264-001	PAYMENT LEXAN, US - DUAL BILL	1	5	
14g	-	CARD READER CABLE (C/W CARD READER)	1	17, 20	
14h	400524-001	CARD READER CABLE BRACKET (NOT SHOWN)	1	-	
15	400444-001	HINGE	1	6	
16	400458-001	DOOR LOCK BRACKET	1	6	
17	400509-001	DOOR GUIDE, UPPER	1	6	

Item	Part no.	Description	Qty.	Assembly	Note
18	-	LED MODULE ASSEMBLY LEFT	-	6,7	
18a	400456-001	LED MODULE HOLDER, LEFT	3	7	
19	-	LED MODULE ASSEMBLY RIGHT	-	6,7	
19a	400456-002	LED MODULE HOLDER, RIGHT	3	7	
20	300159-001	LED MODULE	6	7	
21	-	SERVICE TRAY ASSEMBLY	-	8,9,10,17	
21a	400578-001	SERVICE TRAY	1	9	
21b	400426-001	SERVICE TRAY MOUNTING PLATE	1	9	
21c	400424-001	LOCKING SLIDER, LEFT	1	9	
21d	400424-002	LOCKING SLIDER, RIGHT	1	9	
21e	400427-001	STRAIN RELIEF	2	9	
21f	-	SCR,X-PAN,M5	2	9	
21g	-	WASHER,WIDE,M5	2	9	
21h	400519-001	WASHER,LEXAN	2	9	
21i	400520-001	WASHER,LEXAN,THIN	2	9	
21j	400557-001	SPRING CLIP	2	9	
22	-	SERVICE TRAY MOUNTING HARDWARE	-	8	
22a	-	WASHER,M10,NYLON	4	8	
22b	400577-001	SPRING,COMPRESSION	2	8	
22c	-	WASHER,WIDE,M4	2	8	
22d	-	SCR,X-PAN,M4	2	8	
22e	-	WASHER,M10	2	8	
25	300377-001	COMPUTER, JCB-DSP	1	10,17	
26	300244-001	POWER SUPPLY	1	10,17	
27	700201-154	AMP, 4 CHANNEL	1	10,17	
28	700201-153	AMP, 3 CHANNEL	1	10,17	
29	-	BEZEL ASSEMBLY	-	11	
29a	400560-001	MONITOR BEZEL	1	11	
29b	300273-001	MONITOR	1	11,18	
30	-	ARCH FRAME ASSEMBLY	-	11	
30a	400559-001	ARCH FRAME	1	11	ORDER W/ 30b-30e, 10
30b	400512-001	ARCH REFLECTOR, LEFT (NOT SHOWN)	1	-	
30c	400512-002	ARCH REFLECTOR, RIGHT (NOT SHOWN)	1	-	
30d	400513-001	TOP LENS REFLECTOR (NOT SHOWN)	1	-	
30e	400514-001	TOP LENS END REFLECTOR (NOT SHOWN)	2	-	

Item	Part no.	Description	Qty.	Assembly	Note
30f	400514-002	TOP ARCH END REFLECTOR (NOT SHOWN)	2	-	
31	300268-001	RF MODULE	1	12,18	
32	300270-001	ID MODULE	1	12,18	
33	700038-002	WIRED REMOTE	1	12,18	
34	300312-001	SERVICE LIGHT MODULE	1	12,18	
35	-	CIRCUIT BOARD SUPPORT	4	12	
36	400579-001	LIGHT PIPE	2	12	
37	400462-001	LOCK ASSEMBLY	1	13	
38	400510-001	DOOR GUIDE, LOWER	1	13	
39	400475-001	LOCK BACKING PLATE, SHORT	1	13	
40	400475-002	LOCK BACKING PLATE, LONG	3	13	
41	400517-001	KEYLOCK ASSEMBLY	-	13	
41a	-	KEY (NOT SHOWN)	2	-	
41b	-	KEYLOCK	1	13	
41c	-	CAMSTOP	1	13	
41d	-	LOCKWASHER,M19	1	13	
41e	-	NUT,M19	1	13	
41f	-	LOCKWASHER,M7	1	13	
41g	-	NUT,M7	1	13	
42	400443-001	CAMLOCK	1	13	
43	400435-001	CABINET VENT GRILL, UPPER	2	14	
44	400461-001	WIRED REMOTE SPACER	1	14	
45	400431-001	HANDLE BRACKET, UPPER LEFT	1	14	
46	400431-002	HANDLE BRACKET, UPPER RIGHT	1	14	
47	400463-001	DOOR LIMITER, UPPER	1	14	
48	400463-002	DOOR LIMITER, LOWER	1	14	
49	400433-001	BASE PORT GRILL UPPER	1	15	
50	400434-001	BASE PORT GRILL LOWER	1	15	
51	400422-001	HANDLE BRACKET, LOWER LEFT	1	15	
52	400422-002	HANDLE BRAKCET, LOWER RIGHT	1	15	
53	400430-001	LOWER HANDLE	2	15	
54	400428-001	UPPER HANDLE LEFT	1	15	
55	400428-002	UPPER HANDLE RIGHT	1	15	

Item	Part no.	Description	Qty.	Assembly	Note
56	400582-001	CABINET ENCLOSURE	1	16	
57	400446-001	BASE FRAME	1	16	
58	400448-001	LEVELER	4	16	
59	400447-001	CASTER	4	16	
60	400449-001	CABINET VENT GRILL, LOWER	1	16	
61	400508-001	GRILL RETAINING STRIP	1	16	
62	400473-001	SATELITE SPEAKER RING	4	16	
63	400466-001	SATELITE SPEAKER GRILL	4	16	
64	300402-001	DRIVER, 4"	4	16	
65	300401-001	DRIVER, 8"	2	16,18	
66	100247-001	T-CUP CONNECTOR	2	16,18	
67	400474-001	BASE PORT ACCESS PANEL	1	16	
68	-	BASE PORT ACCESS PANEL GASKET (NOT SHOWN)	1	-	
69	300403-001	SUBWOOFER CABLE - MAIN	1	17,18	
70	300276-050	SPEAKER CABLE 50"	1	17,18	
71	300276-058	SPEAKER CABLE 58"	1	17,18	
72	300298-001	MAIN WIRING HARNESS	1	17,18,19,20	
73	300048-120	POWER CORD, 10'	1	19	
74	300163-072	VGA CABLE, 72"	1	17,18	
75	300198-060	WIRED REMOTE CABLE, 60"	1	17,18	
76	300142-TBD	INTERNET CABLE (LENGTH TBD)	1	17	(NOT INCLUDED)
77	300142-016	RJ45 AUDIO CABLE, 16"	3	17	
78	300299-003	ID TO RF CABLE	1	18	
79	300166-033	LIGHT SHOW CABLE, 33"	1	19	
80	300166-024	LIGHT SHOW CABLE, 24"	2	19	
81	300166-026	LIGHT SHOW CABLE, 26"	2	19	
82	300280-037	LIGHT SHOW CABLE, W/ CONNECTOR	1	19	
83	300317-007	LED SRIP INTERCONNECT, 7"	2	19	
84	600069-001	REMOTE W/ BRACKET + INSTRUCTIONS (NOT SHOWN)	1	-	
85	700224-001	SATELITE SPEAKER UNIT (NOT SHOWN)	4	-	
86	700167-001	LINE-IN INTERFACE (NOT SHOWN)	1	-	
87	700166-001	MIKE BOX (NOT SHOWN)	1	-	
90	300309-001	COMPONENT VIDEO ADAPTER CABLE	1	17	(OPTIONAL)
91	900375-001	INSTALLATION GUIDE / MANUAL (NOT SHOWN)	1	-	
92	300276-TBD	EXT SPEAKER CABLE (LENGTH TBD)	4	17	(NOT INCLUDED)

Item	Part no.	Description	Qty.	Assembly	Note
93	900376-001	QUICK START GUIDE (NOT SHOWN)	1	-	
94	300406-450	SUBWOOFER CABLE - PARALLEL	1	18	
95	300407-120	SATELITE CABLE - PARALLEL (NOT SHOWN)	2	-	
96	300408-300	SATELITE CABLE - CONNECT (NOT SHOWN)	2	-	
97	400516-001	LOCK LATCH SPRING	1	13	
98	700181-001	HEX DRIVER TIP (NOT SHOWN)	1	-	

Return Authorization (RA) Procedure

This chapter provides important information concerning TouchTunes' Return

Authorization procedure.

Return Authorization Numbers (RAs)

- Before a purchaser ships a product back to TouchTunes Interactive Networks, the purchaser must obtain a valid RA number. Boxes received without an authorized RA Number shall be shipped back.
- Authorized RA Numbers shall expire 30 days after they are issued.
- Only the TouchTunes Interactive Networks product and quantity specified on the original RA request can be returned with the RA Number issued.
- If returning additional products to TouchTunes Interactive Networks, a new RA Number shall be required.
- If we receive a shipment containing products not authorized for return on that RA Number, we shall return them as is.

Warranty Repair and Replacements

- TouchTunes Interactive Networks warrants that the product is free from defects in material or workmanship under normal operation.
- Any replacement parts furnished at no cost to the purchaser in fulfillment of this warranty are warranted only for the unexpired portion of the original warranty and extended warranty, if

applicable. Any services or repair outside the scope of this limited warranty shall be at TouchTunes Interactive Networks rates and terms then in effect.

- Normal "Wear and Tear" as determined by TouchTunes Interactive Networks, is NOT covered by this warranty.
- Under certain circumstances and at TouchTunes' sole discretion, some products may be eligible for Advanced Replacement. We shall invoice the purchaser's account for the new unit and issue a full refund for in-warranty products once we receive the original unit from the purchaser.
- TouchTunes Interactive Networks does not provide loaner units.
- TouchTunes Interactive Networks does not warrant the model life of products. TouchTunes Interactive Networks suppliers may at any time make changes in the products delivered as products or components.
- TouchTunes Interactive Networks is not responsible for damages outside of TouchTunes Interactive Networks control including, but not limited to, physical damage, modifications to the product, or improper packaging.

Out of Warranty Repair Services

- Warranty exclusions include, but are not limited to, physical damage, modifications to the product, or improper packaging.
- If a product is out-of-warranty, TouchTunes Interactive Networks shall evaluate it for a minimum charge per unit. Additional parts and labor charges may apply. Prior to proceeding with the repair of a product that is out-of-warranty, TouchTunes Interactive Networks shall send the purchaser a cost proposal that must be signed for acceptance and returned.
- Electing not to have TouchTunes Interactive Networks repair the product, TouchTunes Interactive Networks can dispose of the product on-site for a minimal fee, or the product can be returned as is.

Returns for Credit

- To receive credit for standard product, the product must be in re-saleable or unopened condition. We shall make that determination after evaluating the returned product. Returns for Credit MAY apply to custom products and shall be determined after evaluation of the REQUEST for return.
- TouchTunes Interactive Networks may refuse credit for any of the following conditions:
    - Improper installation or testing.
    - Failure to provide a suitable operating environment.
    - Use of the product for purposes other than those for which it was designed.
    - Failure to monitor or operate the product in accordance with applicable seller specifications and good industry practice.
- Unauthorized attachment, removal, or alteration of any part of the product.
    - Unusual mechanical, physical or electrical stress, scratches, or dents.

  - Modifications or repairs done by parties other than the seller.
  - Abuse, misuse, neglect, or accidental damage.
- TouchTunes Interactive Networks is under NO obligation to accept RAs for wrongly ordered goods. TouchTunes Interactive Networks MAY consider exceptions based on individual situations, a minimum 15% and up to 40% restocking fee shall apply. Products beyond 4 (four) months in age are not eligible for consideration.
- If within 7 days of product receipt the purchaser notifies TouchTunes Interactive Networks that the product is defective or damaged we may waive the restocking fee. The restocking fee may also be waived for the following:
  - An incorrect product shipped by TouchTunes Interactive Networks in error.
  - An Evaluation Unit as stated on your original purchase order.

Labeling and Address

- The RA Number must appear on the outside of the carton(s) in BOLD print. Any product returned without a valid RA Number shall be returned to the sender.
- Return products to the address provided on your RA authorization form.

Packing

- TouchTunes Interactive Networks recommends returning products by United Parcel Service, Federal Express, DHL, or another reputable freight forwarder.
- All TouchTunes Jukeboxes should be returned on a pallet to prevent damage.
- Should products returned to TouchTunes by customer not be shipped with protective packaging similar to that used by TouchTunes, TouchTunes shall consider the products damaged and ship them back to the sender, as is, with no credit issued or repair attempted.
- To avoid voiding the warranty, use TouchTunes Interactive Networks or equivalent packaging to return a product. This includes complete crating, packaging, high-density foam and/or cardboard separators.

Freight Payment

- The customer prepays all inbound freight charges for both in-warranty and out-of-warranty repairs. TouchTunes Interactive Networks is not responsible for damage during shipment. We recommend that you insure the shipment.
- If you require overnight or other special requirements for expedited shipment, these shall be at the purchaser's expense. You may pay freight by either issuing a purchase order with the clear notation “Prepay and Add Freight,” choosing your own carrier and providing your account number (freight collect), or prepaying by credit card.

Freight Claims and Shipment Damage

- If the purchaser receives the original product in damaged condition, notify TouchTunes Interactive Networks Repair Department or Customer Service immediately. If the shipment was made by a TouchTunes Interactive Networks “prepay and add freight” service, TouchTunes Interactive Networks shall help the purchaser process the damage claim.
- If the original freight charges were paid in advance-by freight collect or other means-notify the carrier immediately to initiate a claims inspection. TouchTunes Interactive Networks Customer Service shall provide assistance, as necessary, to process the freight claim.
- If your returns/repair shipment to TouchTunes Interactive Networks is received in damaged condition, TouchTunes Interactive Networks shall notify the purchaser. The purchaser shall need to notify the carrier immediately to initiate a claims inspection. TouchTunes Interactive Networks Customer Service shall provide assistance, as necessary to process the freight claim.

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